Author Index to Volume 261
July–September 1993

A

Aaronson, Stuart A. *See* Wang, Ling-Mei.
Aarhus, Robert. *See* Lee, Hon Cheung.
Abelson, Philip H. (editorials): Global competition. p967 20 Aug 1993. A multipurpose national laboratory. p1503 17 Sep 1993. Power from wind turbines. p1255 3 Sep 1993. Toxic terror; phantom risks. p407 23 July 1993.
Abrams, Michael J. and Murrer, Barry A.: Metal compounds in therapy and diagnosis. p725 6 Aug 1993.
Adams, Cynthia L. *See* Cho, Charles Y.
Ahlborg, Ulf G.: Dioxin's effects (letter). p13 2 July 1993.
Ahmed, Aftab. *See* Deng, Han-Xiang.
Ahorn, Horst. *See* Koch, Christian.
Aikin, K. *See* Proffitt, M. H.
Aldhous, Peter (careers in science): CERN: a mecca for U.S. physicists. p1779 24 Sep 1993. Opportunities in Europe: away from the U.S. rat race. p1776 24 Sep 1993. (news) Bacteria may provide access to the tsetse fly. p548 30 July 1993. Breaking the code for the tuberculosis invasion. p1390 10 Sep 1993. Insect-borne viruses: help from plants. p547 30 July 1993. Malaria: focus on mosquito genes. p546 30 July 1993. The more you use, the cheaper it gets. p678 6 Aug 1993. Thumbs down for cattle hormone. p418 23 July 1993. World Bank report calls for network to bolster research. p155 9 July 1993.
Alfonso, Aixa; Grundahl, Kiely; Duerr, Janet S.; Han, He-Ping; Rand, James B.: The *Caenorhabditis elegans unc-17* gene: a putative vesicular acetylcholine transporter. p617 30 July 1993.
Allet, Bernard. *See* Flores-Romo, Leopoldo.
Alley, R. B. *See* Mayewski, P. A.
Alper, Joseph: Transillumination: looking right through you. p560 30 July 1993.
Alper, Joseph (science innovation): Echo-planar MRI: learning to read minds. p556 30 July 1993. EEG + MRI: a sum greater than the parts. p559 30 July 1993. OCT: images of coherence. p555 30 July 1993.
Alt, Frederick W. *See* Komori, Toshihisa. *See also* Nakayama, Kei-ichi.
Amano, Yukiya: U.S.–Japan SCC collaboration (letter). p146 9 July 1993.
Amato, Ivan (news): A chemical loom weaves new patterns. p165 9 July 1993. Coming in loud and clear—via chaos. p429 23 July 1993. The crusade against chlorine. p152 9 July 1993. Flat twist on holographic displays. p685 6 Aug 1993. Gas your car with coal and plastic bottles. p1388 10 Sep 1993. Harvesting light with molecular leaves. p1388 10 Sep 1993. Listening to the Earth move. p549 30 July 1993. Sniffing out the origins of ginkgo-stink. p1389 10 Sep 1993. A sub surveillance network becomes a window on whales. p549 30 July 1993. Theory meets experiment in high-T superconductivity. p294 16 July 1993. To switch or not to switch. p153 9 July 1993.
Ämmälä, Carina. *See* Juntti-Berggren, Lisa.
Amodei, M. *See* Cariolle, D.
Anandan, J.: Quantum wave measurement (letter). p667 6 Aug 1993.
Anderson, Christopher (news): Can researchers help to lower costs? p417 23 July 1993. Court favors drug 'concept' over proof. p545 30 July 1993. DOE pulls plug on SSC contractor. p822 13 Aug 1993. NASA's troubles come in droves. p1267 3 Sep 1993. NSF's new random inspections draw fire. p289 16 July 1993. Research and health care costs. p416 23 July 1993. Russian science aid falls short. p1380 10 Sep 1993. Surprise fees leave U.S. research reactors gasping. p675 6 Aug 1993. Universities on alert after bomb attacks. p23 2 July 1993. University consortium faulted on management, accounting. p157 9 July 1993. Wanted: a few thousand good reviewers. p1381 10 Sep 1993. White House seeks uniform policy. p1516 17 Sep 1993.
Anderson, Don L.: Helium-3 from the mantle: primordial signal or cosmic dust? p170 9 July 1993.
Anderson, J. *See* Newman, P.
Anderson, J. G. *See* Salawitch, R. J. *See also* Toohey, D. W. *See also* Webster, C. R.
Anderson, Philip W. *See* Chakravarty, Sudip.
Andrews, Brenda J. and Mason, Stephen W.: Gene expression and the cell cycle: a family affair (perspective). p1543 17 Sep 1993.
Anicich, Vincent. *See* Tryka, Kimberly A.
Anthes, Richard A.: review of *Weather Cycles*, by William James Burroughs. p1188 27 Aug 1993.
Antignac, Corinne. *See* Zhou, Jing.
Appella, Ettore. *See* Omichinski, James G.
Arad, T. *See* Majewski, J.
Archibald, Douglas D. *See* Mann, Stephen.
Armstrong, B. *See* Vainio, H.
Aron, William; Fluharty, David; McCaughran, Donald; Roos, John F.: Fisheries management. p813 13 Aug 1993.
Arruda, Sergio; Bomfim, Gloria; Knights, Ronald; Huima-Byron, Tellervo; Riley, Lee W.: Cloning of an *M. tuberculosis* DNA fragment associated with entry and survival inside cells. p1454 10 Sep 1993.
Aruffo, Alejandro. *See* Durie, Fiona H.
Ashe, James. *See* Kim, Seong-Gi.
Atkinson, Daniel E.: review of *A Guide to NIH Grant Programs*, by Samuel M. Schwartz and Mischa E. Friedman. p498 23 July 1993.
Atlas, Daphne. *See* Kupitz, Yuval.
Aubele, Jayne C. *See* Crumpler, L. S.
Aubry, Jean-Pierre. *See* Flores-Romo, Leopoldo.
Avallone, L. *See* Newman, P.
Avallone, L. M. *See* Toohey, D. W. *See also* Webster, C. R. *See also* Wilson, J. C.
Awschalom, David D.: The future of IBM research (letter). p14 2 July 1993.

B

Bagger, Jonathan A.: review of *Perspectives on Higgs Physics*, edited by Gordon L. Kane. p774 6 Aug 1993.
Bainbridge, William Sims: review of *AI*, by Daniel Crevier. p1186 27 Aug 1993.
Baker, Curtis L., Jr. *See* Zhou, Yi-Xiong.
Bal, Thierry. *See* Krosigk, Marcus von.
Balaban, Evan. *See* Fausto-Sterling, Anne.
Balsiger, H. *See* Gloeckler, G.
Balter, Michael (news): An environmental laboratory. p25 2 July 1993. French scientists may face charges over CJD outbreak. p543 30 July 1993. Joining forces to probe environment-health links. p24 2 July 1993.
Bannister, S. *See* ten Brink, U. S.
Bard, Allen J. *See* Liu, Chong-yang.
Bargatze, L. F. *See* Kivelson, M. G.
Barinaga, Marcia (news): Satellite data rocket disease control efforts into orbit. p31 2 July 1993. Treating arthritis with tolerance. p1669 24 Sep 1993.
Barnes, Michael D.; Brooks, Philip R.; Curl, R. F.; Johnson, Bruce R.: Probing chemical reactions: evidence for exploration of an excited potential energy surface at thermal energies. p1434 10 Sep 1993.
Barnett, T. P. *See* Bengtsson, L.
Bartel, David P. and Szostak, Jack W.: Isolation of new ribozymes from a large pool of random sequences. p1411 10 Sep 1993.
Bartholomew, Mary Jane. *See* Cruikshank, Dale P. *See also* Owen, Tobias C.
Bartlett, Alan C. and Gavel, Nick J.: Determining whitefly species (technical comment). p1333 3 Sep 1993.
Baskett, Forest and Hennessy, John L.: Microprocessors: from desktops to supercomputers. p864 13 Aug 1993.
Basu, Asis R.; Renne, Paul R.; DasGupta, Deb K.; Teichmann, Friedrich; Poreda, Robert J.: Early and late alkali igneous pulses and a high-^{3}He plume origin for the Deccan flood basalts. p902 13 Aug 1993.
Baumann, Paul. *See* Campbell, Bruce C.
Baumgardner, D. *See* Salawitch, R. J. *See also* Wilson, J. C.
Bazan, J. Fernando. *See* Rawlings, David J.
Bazin, Hervé. *See* Flores-Romo, Leopoldo.
Beaudoin, B. C. *See* ten Brink, U. S.
Bednarski, Mark D. *See* Charych, Deborah H.
Bekkers, John M.: Enhancement by histamine of NMDA-mediated synaptic transmission in the hippocampus. p104 2 July 1993.
Bellows, Thomas S., Jr. *See* Perring, Thomas M.
Belovsky, Gary E.: How much wilderness? (letter). p1663 24 Sep 1993.
Benditt, John: Editor's note [to Women in Science '93] (letter). p412 23 July 1993.
Bengtsson, L.; Schlese, U.; Roeckner, E.; Latif, M.; Barnett, T. P.; Graham, N.: A two-tiered approach to long-range climate forecasting. p1026 20 Aug 1993.
Benjamin, Ilan: Mechanism and dynamics of ion transfer across a liquid-liquid interface. p1558 17 Sep 1993.
Benner, Steven A.: Catalysis: design versus selection (perspective). p1402 10 Sep 1993.
Benning, Matthew M. *See* Rayment, Ivan.
Benoist, Christophe. *See* Gilfillan, Susan.
Beratan, D. N. *See* Waldeck, D. H.
Berberian, Linda; Goodglick, Lee; Kipps, Thomas, J.; Braun, Jonathan: Immunoglobulin V_H3 gene products: natural ligands for HIV gp120. p1588 17 Sep 1993.
Berberich, S. J. *See* Postel, E. H.
Berdick, Murray: AAAS's Red scare (letter). p145 9 July 1993.
Berggren, Per-Olof. *See* Juntti-Berggren, Lisa.
Berkhout, Frans. *See* Lyman, Edwin.
Berner, Robert A.: Paleozoic atmospheric CO_2: importance of solar radiation and plant evolution. p68 2 July 1993.
Bernstein, David E. *See* Foster, Kenneth R.
Beroza, G. *See* Oppenheimer, D.
Beroza, Gregory C. *See* Nur, Amos.
Bertini, Riccardo. *See* Colotta, Francesco.
Beyer, K. D. *See* Molina, M. J.
Bisagno, A. M. *See* Longo, M. L.
Bitler, Catherine M. *See* Rabizadeh, Shahrooz.
Bleyman, Lea Kanner: Women in Science '93: a "female style"? (letter). p409 23 July 1993.
Bloomfield, P. *See* Mayewski, P. A.
Blumstein, Carl and Harris, Jeffrey: The cost of energy efficiency (letter). p970 20 Aug 1993.
Boddupalli, Sekhar S. *See* Ravichandran, Kurumbail G.
Boghosian, Bruce M. *See* Hills, W. Daniel.
Böhm, C. *See* Majewski, J.
Bokvist, Krister. *See* Juntti-Berggren, Lisa.
Bomfim, Gloria. *See* Arruda, Sergio.
Bonatti, Enrico; Seyler, Monique; Sushevskaya, Nadia: A cold suboceanic mantle belt at the Earth's equator. p315 16 July 1993.
Bonnefoy, Jean-Yves. *See* Flores-Romo, Leopoldo.
Bourhill, Grant. *See* Marder, Seth R.
Bowring, Samuel A.; Grotzinger, John P.; Isachsen, Clark E.; Knoll, Andrew H.; Pelechaty, Shane M.; Kolosov, Peter: Calibrating rates of Early Cambrian evolution. p1293 3 Sep 1993.
Bradley, David (news): Frog venom cocktail yields a one-handed painkiller. p1117 27 Aug 1993. Plastics that play on light. p1272 3 Sep 1993.
Bradshaw, John L.: review of *Hemispheric Asymmetry*, by Joseph B. Hellige. p1755 24 Sep 1993.
Brauman, John I. *See* Collman, James P.
Brauman, John I. (editorials): Bioinorganic chemistry. p663 6 Aug 1993. Computing in science. p811 13 Aug 1993.
Braun, Jonathan. *See* Berberian, Linda.
Bredesen, Dale E. *See* Rabizadeh, Shahrooz.

Bretscher, Mark S. and Munro, Sean: Cholesterol and the Golgi apparatus (perspective). p1280 3 Sep 1993.
Britt, A. B.; Chen, J.-J.; Wykoff, D.; Mitchell, D.: A UV-sensitive mutant of *Arabidopsis* defective in the repair of pyrimidine-pyrimidinone(6–4) dimers. p1571 17 Sep 1993.
Brock, C. A. *See* Wilson, J. C.
Broene, Richard D. and Buchwald, Stephen L.: Zirconocene complexes of unsaturated organic molecules: new vehicles for organic synthesis. p1696 24 Sep 1993.
Brooks, Philip R. *See* Barnes, Michael D.
Browell, E. *See* Toon, O.
Browell, Edward V.; Butler, Carolyn F.; Fenn, Marta A.; Grant, William B.; Ismail, Syed; Schoeberl, Mark R.; Toon, Owen B.; Loewenstein, Max; Podolske, James R.: Ozone and aerosol changes during the 1991–1992 airborne Arctic stratospheric expedition. p1155 27 Aug 1993.
Brown, David D.: NIH funding mechanisms need appraisal (policy forum). p16 2 July 1993.
Brown, R. H. *See* Duxbury, N. S.
Brown, Robert H. *See* Cruikshank, Dale P. *See also* Owen, Tobias C. *See also* Tryka, Kimberly A.
Brown, Steven J.; Kellett, Patti J.; Lippard, Stephen J.: Ixr1, a yeast protein that binds to platinated DNA and confers sensitivity to cisplatin. p603 30 July 1993.
Browner, Carol M.: Protecting the environment: EPA's role (letter). p1373 10 Sep 1993.
Bruinsma, Robijn F. *See* Safinya, Cyrus R.
Brünger, Axex T.; Clore, G. Marius; Gronenborn, Angela M.; Saffrich, Rainer; Nilges, Michael: Assessing the quality of solution nuclear magnetic resonance structures by complete cross-validation. p328 16 July 1993.
Bruni, R. *See* Longo, M. L.
Buller, R. Mark L. *See* Karupiah, Gunasegaran.
Bullock, Eric D. *See* Chan, Iris T.
Buchwald, Stephen L. *See* Broene, Richard D.
Burke, Donald H. *See* Nolan, James M.
Burke, Kevin. *See* Sharpton, Virgil L.
Busa, William B. *See* Galione, Antony.
Butcher, Larry L. *See* Rabizadeh, Shahrooz.
Butler, Alice; Tsunoda, Susan; McCobb, David P.; Wei, Aguan; Salkoff, Lawrence: mSlo, a complex mouse gene encoding "maxi" calcium-activated potassium channels. p221 9 July 1993.
Butler, Carolyn F. *See* Browell, Edward V.
Buzbee, Bill: Workstation clusters rise and shine (computing in science perspective). p852 13 Aug 1993.

C and D

Calvert, J. G.; Heywood, J. B.; Sawyer, R. F.; Seinfeld, J. H.: Achieving acceptable air quality: some reflections on controlling vehicle emissions. p37 2 July 1993.
Camargo-Zanoguera, Antonio. *See* Sharpton, Virgil L.
Campbell, Bruce C.; Duffus, James E.; Baumann, Paul: Determining whitefly species (technical comment). p1333 3 Sep 1993.
Campbell, Kevin P. *See* Witcher, Derrick R.
Cao, B. H. *See* Wu, X. Z.
Cao, Yunzhen. *See* Zhu, Tuofu.
Capron, Monique. *See* Flores-Romo, Leopoldo.
Carlolle, D.; Amodei, M.; Déqué, M.; Mahfouf, J.-F.; Simon, P.; Teyssèdre, H.: A quasi-biennial oscillation signal in general circulation model simulations. p1313 3 Sep 1993.
Carlberg, R. G.: review of *Principles of Physical Cosmology*, by P. J. E. Peebles. p1758 24 Sep 1993.
Carlton, James T. and Geller, Jonathan B.: Ecological roulette: the global transport of nonindigenous marine organisms. p78 2 July 1993.
Carpenter, Graham. *See* Sorkin, Alexander.
Carrigan, Charles R. *See* Zandt, George.
Carty, R. P. *See* Singer, P. T.
Carver, G. *See* Oppenheimer, D.
Casazza, A. M. *See* Trail, P. A.
Castellani, Lawrence W. *See* Warden, Craig H.
Catterall, William A. *See* Li, Ming.
Cavalli-Sforza, L. L.; Menozzi, Paolo; Piazza, Alberto: Genetic variation in Africa (letter). p1508 17 Sep 1993.
Cayabyab, Annarueber. *See* Deng, Han-Xiang.
Chakravarty, Sudip; Sudbø, Asle; Anderson, Philip W.; Strong, Steven: Interlayer tunneling and gap anisotropy in high-temperature superconductors. p337 16 July 1993.
Chalfie, Martin. *See* Xue, Ding.
Chan, Iris T.; Limmer, Andreas; Louie, Marjorie C.; Bullock, Eric D.; Fung-Leung, Wai-Ping; Mak, Tak W.; Loh, Dennis Y.: Thymic selection of cytotoxic T cells independent of CD8 α-Lck association. p1581 17 Sep 1993.
Chan, K. R. *See* Proffitt, M. H. *See also* Salawitch, R. J. *See also* Webster, C. R. *See also* Wilson, J. C.
Chang, H. Y. *See* Molina, M. J.
Chang, Hye Kyung. *See* Whitesell, James K.
Chapman, Verne. *See* Thomas, Jeffrey D.
Chapple, Clint C. S. *See* Reiter, Wolf-Dieter.
Charych, Deborah H.; Nagy, Jon O.; Spevak, Wayne; Bednarski, Mark D.: Direct colorimetric detection of a receptor-ligand interaction by a polymerized bilayer assembly. p585 30 July 1993.
Chavez, Marcela. *See* Flores-Romo, Leopoldo.
Chen, J.-J. *See* Britt, A. B.
Chen, Katherine. *See* Ruff-Jamison, Susan.
Cheng, Tse-Chang; Wallace, Mia C.; Merlie, John P.; Olson, Eric N.: Separable regulatory elements governing *myogenin* transcription in mouse embryogenesis. p215 9 July 1993.
Cheng, Y.-C. *See* Stein, C. A.
Cherry, Sara R. *See* Cho, Charles Y.
Chien, C. L. *See* Whitney, T. M.
Chitnis, Chetan E. *See* Horuk, Richard.
Chmelka, B. F. *See* Monnier, A.
Cho, Charles Y.; Moran, Edmund J.; Cherry, Sara R.; Stephens, James C.; Fodor, Stephen P. A.; Adams, Cynthia L.; Sundaram, Arathi; Jacobs, Jeffrey W.; Schultz, Peter G.: An unnatural biopolymer. p1303 3 Sep 1993.
Choukroune, Pierre: review of *A Continent Revealed*, edited by Derek Blundell, Roy Freeman and Stephan Mueller. p929 13 Aug 1993.
Chu-LaGraff, Quynh and Doe, Chris Q.: Neuroblast specification and formation regulated by *wingless* in the *Drosophila* CNS. p1594 17 Sep 1993.
Churchill, Frederick B.: review of *Darwinism and Social Darwinism in Imperial Germany*, by Paul Julian Weindling. p1187 27 Aug 1993.
Cipra, Barry (news): All the hast that's fit to print. p163 9 July 1993. Electronic time-stamping: the notary public goes digital. p162 9 July 1993. Fermat's last theorem finally yields. p32 2 July 1993.
Clark, Curtis: Let me count the ways (letter). p145 9 July 1993.
Claxton, David F. *See* Liu, Pu.
Clery, Daniel (news): The making of a space program. p541 30 July 1993. Patent dispute goes public. p978 20 Aug 1993. U.S. space scientists look to Europe. p540 30 July 1993.
Clery, Daniel (computing in science): ERS-1: a cautionary tale of data overload. p847 13 Aug 1993.
Clore, G. Marius. *See* Brünger, Axex T. *See also* Omichinski, James G.
Coffey, K. R. *See* Hylton, T. L.
Cohen, Fred E.: review of *Nucleic Acid Targeted Drug Design*, edited by C. L. Propst and Thomas J. Perun. p773 6 Aug 1993.
Cohen, Jon. *See* Travis, John. *See also* Travis, John.
_____(news) Army clears Redfield—but fails to resolve controversy. p824 13 Aug 1993. Harvard group makes a splash—twice. p678 6 Aug 1993. How Varmus got the job. p821 13 Aug 1993. IOM issues vaccine report. p156 9 July 1993. Strategic plan meets the bureaucracy. p23 2 July 1993. Varmus opposition raises anxieties. p156 9 July 1993. (special news report): Conflicting agendas shape NIH. p1674 24 Sep 1993. Cutting for growth. p1127 27 Aug 1993. How much is enough? NIH's best-funded labs. p1123 27 Aug 1993. Is NIH's crown jewel losing luster? p1120 27 Aug 1993. Study sections: does a superb system need a tune-up? p1678 24 Sep 1993. The quality of research. p1120 27 Aug 1993. Recruiting the best. p1125 27 Aug 1993. 'Herr professor' labs. p1124 27 Aug 1993. 'Power to the people'—research style. p1125 27 Aug 1993. 'Top down' management. p1122 27 Aug 1993.
Cohen, Lucie. *See* Rawlings, David J.
Cohen, Marvin L.: Predicting useful materials (perspective). p307 16 July 1993.
Cohen, Stanley. *See* Ruff-Jamison, Susan.
Colby, Timothy J. *See* Horuk, Richard.
Coleman, P. J., Jr. *See* Kivelson, M. G.
Collins, Francis S. *See* Liu, Pu.
Collins, Frank H. *See* Zheng, Liangbiao.
Collman, James P.; Zhang, Xumu; Lee, Virgil J.; Uffelman, Erich S.; Brauman, John I.: Regioselective and enantioselective epoxidation catalyzed by metalloporphyrins. p1404 10 Sep 1993.
Colotta, Francesco; Re, Fabio; Muzio, Marta; Bertini, Riccardo; Polentarutti, Nadia; Sironi, Marina; Giri, Judith G.; Dower, Steven K.; Sims, John E.; Mantovani, Alberto: Interleukin-1 type II receptor: a decoy target for IL-1 that is regulated by IL-4. p472 23 July 1993.
Combitchi, Daniel. *See* Trentham, David E.
Concha, N. O.; Head, J. F.; Kaetzel, M. A.; Dedman, J. R.; Seaton, B. A.: Rat annexin V crystal structure: Ca^{2+}-induced conformational changes. p1321 3 Sep 1993.
Conway, Martin A.: review of *Affect and Accuracy in Recall*, edited by Eugene Winograd and Ulric Neisser. p369 16 July 1993.
Cooper, Arthur D. *See* Perring, Thomas M.
Copeland, Neal G. *See* Rawlings, David J.
Corda, David. *See* Rome, Lawrence C.
Corder, E. H.; Saunders, A. M.; Strittmatter, W. J.; Schmechel, D. E.; Gaskell, P. C.; Small, G. W.; Roses, A. D.; Haines, J. L.; Pericak-Vance, M. A.: Gene dose of apolipoprotein E type 4 allele and the risk of Alzheimer's disease in late onset families. p921 13 Aug 1993.
Cotts, Robert M.: review of *The Metal-Hydrogen System*, by Yuh Fukai. p1063 20 Aug 1993.
Côté, Jacques and Ruiz-Carrillo, Adolf: Primers for mitochondrial DNA replication generated by endonuclease G. p765 6 Aug 1993.
Courty, M.-A. *See* Weiss, H.
Cowan, Sandra W. *See* Toney, Michael D.
Craik, Charles S. *See* Perona, John J.
Crease, Robert. *See* Mann, Charles.
Crease, Robert P. (science innovation): Biomedicine in the age of imaging. p554 30 July 1993.
Cross, T. A. *See* Ketchem, R. R.
Crothers, Donald M. *See* Weeks, Kevin M.
Cruikshank, Dale P. *See* Owen, Tobias C. *See also* Tryka, Kimberly A.
_____; Roush, Ted L.; Owen, Tobias C.; Geballe, Thomas R.; de Bergh, Catherine; Schmitt, Bernard; Brown, Robert H.; Bartholomew, Mary Jane: Ices on the surface of Triton. p742 6 Aug 1993.
Crumpler, L. S.; Head, James W.; Aubele, Jayne C.: Relation of major volcanic center concentration on Venus to global tectonic patterns. p591 30 July 1993.
Cullen, Katherine E.; Kladde, Michael P.; Seyfred, Mark A.: Interaction between transcription regulatory regions of prolactin chromatin. p203 9 July 1993.
Culotta, Elizabeth (carrers in science): Doctor-doctor: growing demand for M.D.-Ph.D.s. p1784 24 Sep 1993. (news) Nocturnal researchers tune their ears to our ancestors. p30 2 July 1993.
Culver, Gloria M.; McCraith, Stephen M.; Zillmann, Martin; Kierzek, Ryszard; Michaud, Neil; LaReau, Richard D.; Turner, Douglas H.; Phizicky, Eric M.: An NAD derivative produced during transfer RNA splicing: ADP-ribose 1″-2″ cyclic phosphate. p206 9 July 1993.
Curl, R. F. *See* Barnes, Michael D.
Curnow, A. *See* Weiss, H.
D'Hondt, S. L. *See* Park, J.
Darbonne, Walter C. *See* Horuk, Richard.
Darnell, James E., Jr. *See* Sadowski, Henry B. *See also* Shuai, Ke.
DasGupta, Deb K. *See* Basu, Asis R.
David, Micheal. *See* Larner, Andrew C.
Day, Peter: The chemistry of magnets (perspective). p431 23 July 1993.
de Bergh, Catherine. *See* Cruikshank, Dale P. *See also* Owen, Tobias C.
de Paepe, Anne. *See* Zhou, Jing.
de Ruiter, Peter C. *See* Moore, John C.
de Vos, Abraham M. *See* Judice, J. Kevin.
De Waard, Michel. *See* Witcher, Derrick R.
Debs, Robert. *See* Zhu, Ning.
DeCoursey, R. J. *See* Wilson, J. C.
Dedman, J. R. *See* Concha, N. O.
DeGrado, William F. *See* Handel, Tracy M.
Deisenhofer, Johann. *See* Ravichandran, Kurumbail G.
Deng, Gang. *See* Deng, Han-Xiang.
Deng, Han-Xiang; Hentati, Afif; Tainer, John A.; Iqbal, Zafar; Cayabyab, Annarueber; Hung, Wu-Yen; Getzoff, Elizabeth D.; Hu, Ping; Herzfeldt, Brian; Roos, Raymond P.; Warner, Carolyn; Deng, Gang; Soriano, Edwin; Smyth, Celestine; Parge, Hans E.; Ahmed, Aftab; Roses, Allen D.; Hallewell, Robert A.; Pericak-Vance, Margaret A.; Siddique, Teepu: Amyotrophic lateral sclerosis and structural defects in Cu,Zn superoxide dismutase. p1047 20 Aug 1993.
Dengler, L. *See* Oppenheimer, D.
Denney, Brewster C.: The end of public higher education?

(letter). p1661 24 Sep 1993.
Déqué, M. See Cariolle, D.
Des Jarlais, Don C. and Widdus, Roy: The missing AIDS science (letter). p665 6 Aug 1993.
Deutsch, M. See Wu, X. Z.
Devary, Yoram; Rosette, Caridad; DiDonato, Joseph A.; Karin, Michael: NF-κB activation by ultraviolet light not dependent on a nuclear signal. p1442 10 Sep 1993.
Diamond, Rochelle: Genetics and male sexual orientation (letter). p1258 3 Sep 1993.
Dickstein, Akiva J.; Erramilli, Shyamsunder; Goldstein, Raymond E.; Jackson, David P.; Langer, Stephen A.: Labyrinthine pattern formation in magnetic fields. p1012 20 Aug 1993.
DiDonato, Joseph A. See Devary, Yoram.
Didymus, Jon M. See Mann, Stephen.
Dierich, Andrée. See Gilfillan, Susan.
Dionne, Vincent E.: review of *Cell Biology of Olfaction*, by Albert I. Farbman. p774 6 Aug 1993.
Djerassi, Carl: Basic research: the gray zone (policy forum). p972 20 Aug 1993.
Doe, Chris Q. See Chu-LaGraff, Quynh.
Doi, Katsumi. See Yamashita, Shinya.
Dolbier, William R., Jr.: review of *Synthetic Fluorine Chemistry*, edited by George A. Olah, Richard D. Chambers, and G. K. Surya Prakash. p1188 27 Aug 1993.
Dorozynski, Alexander (news): Computers bring back a long-lost French abbey. p544 30 July 1993.
Doughtery, Dennis A. See Kumpf, Robert A.
Douglas, Trevor. See Mann, Stephen.
Dowdle, Walter: review of *Emerging Viruses*, edited by Stephen S. Morse. p1610 17 Sep 1993.
Dower, Steven K. See Colotta, Francesco.
Driscoll, Tobin A. See Trefethen, Lloyd N.
Duarte, Cornelio. See Karupiah, Gunasegaran.
Duerr, Janet S. See Alfonso, Aixa.
Dufus, James E. See Campbell, Bruce C.
Durie, Fiona H.; Fava, Roy A.; Foy, Teresa M.; Aruffo, Alejandro; Ledbetter, Jeffrey A.; Noelle, Randolph J.: Prevention of collagen-induced arthritis with an antibody to gp39, the ligand for CD40. p1328 3 Sep 1993.
Durisen, Richard H.: review of *The Realm of Interacting Binary Stars*, edited by J. Sahade, G. E. McCluskey, Jr., and Y. Kondo. p117 2 July 1993.
Durum, S. K. See Muegge, K.
Duxbury, N. S. and Brown, R. H.: The phase composition of Triton's polar caps. p748 6 Aug 1993.
Dye, J. E. See Salawitch, R. J. See also Wilson, J. C.
Dynesius-Trentham, Roselynn A. See Trentham, David E.
Dypbukt, Jeanette. See Juntti-Berggren, Lisa.

E and F

Eaton, J. See Oppenheimer, D.
Eckhardt, R. B. See Thorne, A. G.
Effenhauser, Carlo S. See Harrison, D. Jed.
Egami, T.; Ishihara, S.; Tachiki, M.: Lattice effect of strong electron correlation: implication for ferroelectricity and superconductivity. p1307 3 Sep 1993.
Eichenbaum, Howard: Thinking about brain cell assemblies (perspective). p993 20 Aug 1993.
Eijgenraam, Felix (news): Things start getting sticky for a cell surface enzyme. p833 13 Aug 1993. 'Java Man' gains (and loses) a consort. p297 16 July 1993.
Eitan, Shoshana and Schwartz, Michal: A transglutaminase that converts interleukin-2 into a factor cytotoxic to oligodendrocytes. p106 2 July 1993.
Elbaz, Edgard: Vive Lyons! (letter). p971 20 Aug 1993.
Elkins, J. W. See Proffitt, M. H. See also Salawitch, R. J. See also Webster, C. R.
Elks, Marty: Women in Science '93: a "female style"? (letter). p410 23 July 1993.
Ellermann, Jutta M. See Kim, Seong-Gi.
Elliot, James L. See Owen, Tobias C.
El-Sayed, M. A. See Song, Li.
Erman, Batu. See Nelsen, Barbara.
Erramilli, Shyamsunder. See Dickstein, Akiva J.
Essene, Eric J. See Shau, Yen-Hong.
Fahey, D. W. See Newman, P. See also Salawitch, R. J. See also Toohey, D. W.
Fan, Zhonghui. See Harrison, D. Jed.
Farley, K. A.: Is "primordial" helium really extraterrestrial? (perspective). p166 9 July 1993.
Farrar, Charles A. See Perring, Thomas M.
Farrell, Brenda: Women in Science '93: a "female style"? (letter). p410 23 July 1993.
Fast, H. See Proffitt, M. H.
Fausto-Sterling, Anne and Balaban, Evan: Genetics and male sexual orientation (letter). p1257 3 Sep 1993.
Fava, Roy A. See Durie, Fiona H.
Feingold, Mordechai: review of *The Scientific Revolution in National Context*, edited by Roy Porter and Mikuláš Teich. p499 23 July 1993.
Feiveson, Harold. See Lyman, Edwin.
Feldman, Gerald M. See Larner, Andrew C.
Felsenfeld, Gary. See Omichinski, James G.
Fendrich, Robert; Wessinger, C. Mark; Gazzaniga, Michael S.: Sources of blindsight (technical comment). p494 23 July 1993.
Fenn, Marta A. See Browell, Edward V.
Ferentz, Ann E. See Myers, Lawrence C.
Ferrone, C. A. See Postel, E. H.
Ferry, G. V. See Wilson, J. C.
Festou, Michel C. See Stern, S. Alan.
Fields, Larry E. See Nakayama, Kei-ichi.
Finbloom, David S. See Larner, Andrew C.
Finkbeiner, Ann (news): The life history of galaxy clusters. p28 2 July 1993. Peering at the edge of the universe. p29 2 July 1993.
Firestone, R. A. See Trail, P. A.
Firouzi, A. See Monnier, A.
Fisk, L. A. See Gloeckler, G.
Flam, Faye (news): Artificial atom unveils quantum effects. p832 13 Aug 1993. Closing in on x-ray background origins. p1520 17 Sep 1993. Cornell leads battle of the B factories. p1111 27 Aug 1993. Hot and cold dark matter on tap. p684 6 Aug 1993. In sink-or-swim environment, physicists retrain to survive. p1672 24 Sep 1993. Physicists band together to support a new megaproject. p420 23 July 1993. Physicists take a hard look at vision. p982 20 Aug 1993.
Fletterick, Robert J. See Perona, John J.
Flint, S. J. See Postel, E. H.
Flores-Romo, Leopoldo; Shields, John; Humbert, Yves; Graber, Pierre; Aubry, Jean-Pierre; Gauchat, Jean-François; Guidon, Ayala; Allet, Bernard; Chavez, Marcela; Bazin, Hervé; Capron, Monique; Bonnefoy, Jean-Yves: Inhibition of an in vivo antigen-specific IgE response by antibodies to CD23. p1038 20 Aug 1993.
Fluharty, David. See Aron, William.
Fluri, Karl. See Harrison, D. Jed.
Flynn, Brian and Mendillo, Michael: A picture of the moon's atmosphere. p184 9 July 1993.
Fodor, Stephen P. A. See Cho, Charles Y.
Forrest, Stephanie: Genetic algorithms: principles of natural selection applied to computation. p872 13 Aug 1993.
Foster, Kenneth R.; Bernstein, David E.; Huber, Peter W.: Science and the toxic tort (policy forum). p1509 17 Sep 1993.
Fox, Karen. See Mervis, Jeffrey.
_____(news): How islands survive in a chaotic sea. p988 20 Aug 1993. Indoor robots start flying blind. p685 6 Aug 1993. Light microscopes get a sharper look. p1275 3 Sep 1993.
Fox, Marye Anne. See Liu, Chong-yang.
Fox, Paul J.: Alvin and deep ocean research (letter). p13 2 July 1993.
Foy, Teresa M. See Durie, Fiona H.
Franzini-Armstrong, Clara. See Witcher, Derrick R.
Freedman, David (computing in science): AI helps researchers find meaning in molecules. p844 13 Aug 1993.
Freedman, Matthew. See Liu, Pu.
Friedrich, Leslie. See Gaffney, Thomas.
Frisch, Rose E.: "Critical fat" (letter). p1103 27 Aug 1993.
Fuchs, Robert P. P. See Veaute, Xavier.
Fung-Leung, Wai-Ping. See Chan, Iris T.

G and H

Gaffney, Thomas; Friedrich, Leslie; Vernooij, Bernard; Negrotto, David; Nye, Gordon; Uknes, Scott; Ward, Eric; Kessmann, Helmut; Ryals, John: Requirement of salicylic acid for the induction of systemic acquired resistance. p754 6 Aug 1993.
Galione, Antony; McDougall, Alex; Busa, William B.; Wilmott, Nick; Gillot, Isabelle; Whitaker, Michael: Redundant mechanisms of calcium-induced calcium release underlying calcium waves during fertilization of sea urchin eggs. p348 16 July 1993.
Galvin, A. B. See Gloeckler, G.
Gamble, Theresa R. See Judice, J. Kevin.
Gary, B. See Toon, O.
Gaskell, P. C. See Corder, E. H.
Gauchat, Jean-François. See Flores-Romo, Leopoldo.
Gavel, Nick J. See Bartlett, Alan C.
Gavroglu, Kostas: review of *History and Origins of Cryogenics*, edited by Ralph G. Scurlock, and *Superconductivity*, by Per Fridtjof Dahl. p1338 3 Sep 1993.
Gazzaniga, Michael S. See Fendrich, Robert.
Geballe, Thomas R. See Cruikshank, Dale P. See also Owen, Tobias C.
Gee, L. See Oppenheimer, D.
Geiss, J. See Gloeckler, G.
Geller, Jonathan B. See Carlton, James T.
Georgopoulos, Apostolos P. See Kim, Seong-Gi.
Germain, Ronald N. See van Meerwijk, Joost P. M.
Gerstel, Naomi: review of *Gender Play*, by Barrie Thorne. p1062 20 Aug 1993.
Getzoff, Elizabeth D. See Deng, Han-Xiang.
Giardina, Charles and Lis, John T.: DNA melting on yeast RNA polymerase II promoters. p759 6 Aug 1993.
Gibbons, Ann (news): How the Akkadian Empire was hung out dry. p985 20 Aug 1993. Really wicked stepparents. p987 20 Aug 1993. Warring over women. p987 20 Aug 1993. Why are 'new' diseases born? p680 6 Aug 1993.
Gibson, C. See Park, J.
Gilfillan, Susan; Dierich, Andrée; Lemeur, Marianne; Benoist, Christophe; Mathis, Diane: Mice lacking TdT: mature animals with an immature lymphocyte repertoire. p1175 27 Aug 1993.
Gillot, Isabelle. See Galione, Antony.
Gilman, Alfred G. See Taussig, Ronald.
Gilman, John J.: Why silicon is hard. p1436 10 Sep 1993.
Gilman, Michael Z. See Sadowski, Henry B.
Giri, Judith G. See Colotta, Francesco.
Givnish, Thomas J.: review of *Scaling Physiological Processes*, edited by James R. Ehleringer and Christopher B. Field. p115 2 July 1993.
Gladstone, G. Randall: Photochemistry in the primitive solar nebula (technical comment). p1058 20 Aug 1993.
Glatzmaier, Gary A. See Jordan, Thomas H.
Glezer, Ilya I. and Morgane, Peter J.: Primate brain measurements (letter). p277 16 July 1993.
Gloeckler, G.; Geiss, J.; Balsiger, H.; Fisk, L. A.; Galvin, A. B.; Ipavich, F. M.; Ogilvie, K. W.; von Steiger, R.; Wilken, B.: Detection of interstellar pick-up hydrogen in the solar system. p70 2 July 1993.
Goldberg, Irving H. See Kappen, Lizzy S.
Goldstein, Raymond E. See Dickstein, Akiva J.
Gonzalez, F. See Oppenheimer, D.
Goodglick, Lee. See Berberian, Linda.
Goodman, Billy (news): Drugs and people threaten diversity in Andean forests. p293 16 July 1993. A 'shotgun wedding' finally produces test-tube plants. p430 23 July 1993.
Gorman, Christopher B. See Marder, Seth R.
Gottlieb, E. W. See Salawitch, R. J.
Graber, Pierre. See Flores-Romo, Leopoldo.
Graham, N. See Bengtsson, L.
Grandjean, Daniel. See Stumpf, Humberto O.
Grant, William B. See Browell, Edward V.
Graves, Barbara. See Nelsen, Barbara.
Gregoire, Jacqueline. See Nelsen, Barbara.
Grimaldi, J. Christopher. See Rawlings, David J.
Grimm, Eric C.; Jacobson, George L., Jr.; Watts, William A.; Hansen, Barbara C. S.; Maasch, Kirk A.: A 50,000-year record of climate oscillations from Florida and its temporal correlation with the Heinrich events. p198 9 July 1993.
Grinberg, Alexander. See Love, Paul E.
Gronenborn, Angela M. See Brünger, Axex T. See also Omichinski, James G.
Grossman, Lawrence: review of *Victor Moritz Goldschmidt*, by Brian Mason. p114 2 July 1993.
Grotzinger, John P. See Bowring, Samuel A.
Grundahl, Kiely. See Alfonso, Aixa.
Guichard, F. See Weiss, H.
Guidon, Ayala. See Flores-Romo, Leopoldo.
Guo, Q. See Pierce, F. S.
Haber, Howard E.: review of *Heavy Flavours*, edited by A. J. Buras and M. Lindner. p370 16 July 1993.
Hackett, Rebecca H. See Larner, Andrew C.
Haddon, R. C.: Chemistry of the fullerenes: the manifestation of strain in a class of continuous aromatic molecules. p1545 17 Sep 1993.
Hadley, Terence J. See Horuk, Richard.
Hafler, David. See Zhang, Jingwu.
Hafler, David A. See Trentham, David E.
Haines, J. L. See Corder, E. H.
Hajra, Amitav. See Liu, Pu.
Hakim, Fran. See Mozes, Edna.

Hall, Stuart A. *See* Sharpton, Virgil L.
Hall, Craig G.; Sancho, Jaime; Terhorst, Cox: Reconstitution of T cell receptor ζ-mediated calcium mobilization in nonlymphoid cells. p915 13 Aug 1993.
Hallberg, Anders. *See* Juntti-Berggren, Lisa.
Hallewell, Robert A. *See* Deng, Han-Xiang.
Hamer, Dean; Hu, Stella; Magnuson, Victoria; Hu, Nan; Pattatucci, Angela: Genetics and male sexual orientation (letter). p1259 3 Sep 1993.
Hamer, Dean H.; Hu, Stella; Magnuson, Victoria L.; Hu, Nan; Pattatucci, Angela M. L.: A linkage between DNA markers on the X chromosome and male sexual orientation. p321 16 July 1993.
Hames, W. E. and Hodges, K. V.: Laster $^{40}Ar/^{39}Ar$ evaluation of slow cooling and episodic loss of ^{40}Ar from a sample of polymetamorphic muscovite. p1721 17 Sep 1993.
Hämmerling, Günter J. *See* Neefjes, Jacques J.
Han, He-Ping. *See* Alfonso, Aixa.
Handel, Tracy M.; Williams, Scott A.; DeGrado, William F.: Metal ion–dependent modulation of the dynamics of a designed protein. p879 13 Aug 1993.
Hansen, Barbara C. S. *See* Grimm, Eric C.
Harabaglia, Paolo. *See* Ihmlé, Pierre F.
Harmon, Rockne P.: DNA evidence (letter). p13 2 July 1993.
Harris, Jeffrey. *See* Blumstein, Carl.
Harrison, D. Jed; Fluri, Karl; Seiler, Kurt; Fan, Zhonghui; Effenhauser, Carlo S.; Manz, Andreas: Micromachining a miniaturized capillary electrophoresis-based chemical analysis system on a chip. p895 13 Aug 1993.
Hasemann, Charles A. *See* Ravichandran, Kurumbail G.
Hatam, Farah. *See* Locksley, Richard M.
Hauser, Marc D.: Right hemisphere dominance for the production of facial expression in monkeys. p475 23 July 1993.
Haygood, Margo G.: review of *Concepts of Symbiogenesis*, by Liya Nikolaevna Khakhina. p628 30 July 1993.
Hazen, Robert M. *See* Jeanloz, Raymond.
Head, J. F. *See* Concha, N. O.
Head, James W. *See* Crumpler, L. S.
Hedgpeth, Joel W.: Foreign invaders (perspective). p34 2 July 1993.
Hedrick, Catherine C. *See* Warden, Craig H.
Heilker, Ralf. *See* Tashiro, Kei.
Helgeson, Harold C. *See* Oelkers, Eric H.
Hellström, I. *See* Trail, P. A.
Hellström, K. E. *See* Trail, P. A.
Henderson, A. J. *See* Trail, P. A.
Hendrich, Kristy. *See* Kim, Seong-Gi.
Hennessy, John L. *See* Baskett, Forest.
Hentati, Afif. *See* Deng, Han-Xiang.
Herron, Caroline E. *See* Mulkey, Rosel M.
Hertel, Fritz. *See* Van Valkenburgh, Blaire.
Herzfeldt, Brian. *See* Deng, Han-Xiang.
Hetzer, Martin. *See* Mueller, Manfred W.
Heywood, Brigid R. *See* Mann, Stephen.
Heywood, J. B. *See* Calvert, J. G.
Hibbard, Lyndon S. *See* Schieber, Marc H.
Hills, W. Daniel and Boghosian, Bruce M.: Parallel scientific computation. p856 13 Aug 1993.
Hiroi, Takahiro; Pieters, Carlé M.; Zolensky, Michael E.; Lipschutz, Michael E.: Evidence of thermal metamorphism on the C, G, B, and F asteroids. p1016 20 Aug 1993.
Hisatake, Koji. *See* Yamashita, Shinya.
Ho, David D. *See* Zhu, Tuofu.
Ho, Robert K. and Kimmel, Charles B.: Commitment of cell fate in the early zebrafish embryo. p109 2 July 1993.
Hodges, K. V. *See* Hames, W. E.
Hofstead, S. *See* Trail, P. A.
Hohenester,Erhard. *See* Toney, Michael D.
Holden, Constance (careers in science): Foreign nationals change the face of U.S. science. p1769 24 Sep 1993. New life ahead for social sciences. p1796 24 Sep 1993. (news) Computer networks bring 'real science' to the schools. p980 20 Aug 1993.
Holden, Hazel M. *See* Rayment, Ivan. *See also* Rayment, Ivan.
Holloway, John R. *See* Pawley, Alison R.
Holmes, Bob (news): A study finds there's life left in the Green Revolution. p1517 17 Sep 1993.
Holmes, Kenneth C. *See* Rayment, Ivan.
Honjo, Tasuku. *See* Tashiro, Kei.
Horikoshi, Masami. *See* Yamashita, Shinya.
Horn, Thomas. *See* Urdea, Michael S.
Horowitz, Norman H. *See* Sinsheimer, Robert L.
Horuk, Richard; Chitnis, Chetan E.; Darbonne, Walter C.; Colby, Timothy J.; Rybicki, Anne; Hadley, Terence J.; Miller, Louis H.: A receptor for the malarial parasite *Plasmodium vivax*: the erythrocyte chemokine receptor. p1182 27 Aug 1993.
Howard, J. K. *See* Hylton, T. L.
Howard, Maureen. *See* Rawlings, David J.
Hu, Nan. *See* Hamer, Dean. *See also* Hamer, Dean H.
Hu, Ping. *See* Deng, Han-Xiang.
Hu, Stella. *See* Hamer, Dean. *See also* Hamer, Dean H.
Hu, W. *See* Ketchem, R. R.
Huang, Sing Ping. *See* Love, Paul E.
Huber, Peter W. *See* Foster, Kenneth R.
Hughes, Patrick R. *See* Wood, H. Alan.
Huima-Byron, Tellervo. *See* Arruda, Sergio.
Humbert, Yves. *See* Flores-Romo, Leopoldo.
Hung, Wu-Yen. *See* Deng, Han-Xiang.
Hunt, H. William. *See* Moore, John C.
Huo, Q. *See* Monnier, A.
Hylton, T. L.; Coffey, K. R.; Parker, M. A.; Howard, J. K.: Giant magnetoresistance at low fields in discontinuous NiFe-Ag multilayer thin films. p1021 20 Aug 1993.
Hynes, Nancy: Women in Science '93: a "female styel"? (letter). p411 23 July 1993.

I and J

Igarashi, Ken-ichi. *See* Larner, Andrew C.
Ihmlé, Pierre F.; Harabaglia, Paolo; Jordan, Thomas H.: Teleseismic detection of a slow precursor to the great 1989 Macquarie Ridge earthquake. p177 9 July 1993.
Iñiguez-Lluhi, Jorge A. *See* Taussig, Ronald.
Inside AAAS: 1994 dues increase. p632 30 July 1993. The AAAS contingent: avoiding conflict overseas. p1760 24 Sep 1993. AAAS elections & nominations. p1760 24 Sep 1993. AAAS representative to India. p1192 27 Aug 1993. AAAS science and security colloquium. p1760 24 Sep 1993. Annual report available. p632 30 July 1993. Electronic publications: land of opportunity? p631 30 July 1993. From the Pacific Division. p1192 27 Aug 1993. Incorporation update. p1192 27 Aug 1993. Kudos for Lederman. p632 30 July 1993. Life insurance credit. p1192 27 Aug 1993. Network ethics: a call for papers. p632 30 July 1993. Reminder. p1192 27 Aug 1993. Scientific plagiarism and the theft of ideas. p631 30 July 1993. Where's Merck? p1192 27 Aug 1993.
Ipavich, F. M. *See* Gloeckler, G.
Iqbal, Zafar. *See* Deng, Han-Xiang.
Isachsen, Clark E. *See* Bowring, Samuel A.
Ishihara, S. *See* Egami, T.
Ismail, Syed. *See* Browell, Edward V.
Jackson, David P. *See* Dickstein, Akiva J.
Jacobs, Jeffrey W. *See* Cho, Charles Y.
Jacobson, Elaine L. *See* Kim, Hyuntae.
Jacobson, George L., Jr. *See* Grimm, Eric C.
Jacobson, Myron K. *See* Kim, Hyuntae.
Jacquemain, D. *See* Majewski, J.
Jamison, Andrew: review of *An Entangled Bank*, by Joel B. Hagen. p497 23 July 1993.
Janicke, M. *See* Monnier, A.
Jansonius, Johan N. *See* Toney, Michael D.
Jayko, A. *See* Oppenheimer, D.
Jeanloz, Raymond and Hazen, Robert M.: Composition limits of Fe_xO and the Earth's lower mantle (technical comment). p923 13 Aug 1993.
Jenkins, Nancy A. *See* Rawlings, David J.
Jeppesen, Claus. *See* Safinya, Cyrus R.
Jezek, K. C. *See* Rignot, E. J.
Jiang, J. S. *See* Whitney, T. M.
Johnson, Bruce R. *See* Barnes, Michael D.
Johnson, Dale F. and Weinberg, W. Henry: Quantification of the influence of surface structure on C–H bond activation by iridium and platinum. p76 2 July 1993.
Johnson, Mark D. *See* Love, Paul E.
Jonsson, H. H. *See* Wilson, J. C.
Jordan, J. *See* Toon, O.
Jordan, Thomas H. *See* Ihmlé, Pierre F.
———; Puster, Peter; Glatzmaier, Gary A.; Tackley, Paul J.: Comparisons between seismic Earth structures and mantle flow models based on radial correlation functions. p1427 10 Sep 1993.
Judice, J. Kevin; Gamble, Theresa R.; Murphy, Elizabeth C.; de Vos, Abraham M.; Schultz, Peter G.: Probing the mechanism of staphylococcal nuclease with unnatural amino acids: kinetic and structural studies. p1578 17 Sep 1993.
Juntti-Berggren, Lisa; Larsson, Olof; Rorsman, Patrik; Ämmälä, Carina; Bokvist, Krister; Wåhlander, Karin; Nicotera, Pierluigi; Dypbukt, Jeanette; Orrenius, Sten; Hallberg, Anders; Berggren, Per-Olof: Increased activity of L-type Ca^{2+} channels exposed to serum from patients with type I diabetes. p86 2 July 1993.

K

Kaetzel, M. A. *See* Concha, N. O.
Kafatos, Fotis C. *See* Zheng, Liangbiao.
Kahl, Steven D. *See* Witcher, Derrick R.
Kahn, Olivier. *See* Stumpf, Humberto O.
Kameoka, Junichi; Tanaka, Toshiaki; Nojima, Yoshihisa; Schlossman, Stuart F.; Morimoto, Chikao: Direct association of adenosine deaminase with a T cell activation antigen, CD26. p466 23 July 1993.
Kane, Gordon L.: Supersymmetry predictions (letter). p534 30 July 1993.
Kappen, Lizzy S. and Goldberg, Irving H.: DNA conformation–induced activation of an enediyne for site-specific cleavage. p1319 3 Sep 1993.
Karin, Michael. *See* Devary, Yoram.
Karlin, Kenneth D.: Metalloenzymes, structural motifs, and inorganic models. p701 6 Aug 1993.
Karupiah, Gunasegaran; Xie, Qiao-wen; Buller, R. Mark L.; Nathan, Carl; Duarte, Cornelio; MacMicking, John D.: Inhibition of viral replication by interferon-γ–induced nitric oxide synthase. p1445 10 Sep 1993.
Kasting, Jim: Photochemistry in the primitive solar nebula (technical comment). p1059 20 Aug 1993.
Katz, Michael: Dental institute report (letter). p533 30 July 1993.
Kawai, Kazuhiro. *See* Shahinian, Arda.
Keller, Linda H.: Women in Science '93: a "female style"? (letter). p408 23 July 1993.
Keller, Lindsay P. and McKay, David S.: Discovery of vapor deposits in the lunar regolith. p1305 3 Sep 1993.
Kellett, Patti J. *See* Brown, Steven J.
Kelly, K. *See* Newman, P.
Kelly, K. K. *See* Salawitch, R. J. *See also* Wilson, J. C.
Kennedy, A. K. *See* LaTourrette, T. Z.
Kerr, Ian M. *See* Shuai, Ke.
Kerr, Richard A. (news): A bigger death knell for the dinosaurs? p1518 17 Sep 1993. Bits of the lower mantle found in Brazilian diamonds. p1391 10 Sep 1993. Even warm climates get the shivers. p292 16 July 1993. Evolution's Big Bang gets even more explosive. p1274 3 Sep 1993. Fossils tell of mild winters in an ancient hothouse. p682 6 Aug 1993. The gang that drilled straight. p296 16 July 1993. Jupiter bombardment now certain, but how big a show? p552 30 July 1993. Looking–deeply–into the Earth's crust in Europe. p295 16 July 1993. A source found for Earth's commonest meteorites. p427 23 July 1993. Killer asteroid twin? (letter). p146 9 July 1993.
Kessmann, Helmut. *See* Gaffney, Thomas.
Ketchem, R. R.; Hu, W.; Cross, T. A.: High-resolution conformation of gramicidin A in a lipid bilayer by solid-state NMR. p1457 10 Sep 1993.
Khurana, K. K. *See* Kivelson, M. G.
Kierzek, Ryszard. *See* Culver, Gloria M.
Killeen Nigel. *See* Locksley, Richard M.
Kim, Hyuntae; Jacobson, Elaine L.; Jacobson, Myron K.: Synthesis and degradation of cyclic ADP–ribose by NAD glycohydrolases. p1330 3 Sep 1993.
Kim, J. E. *See* Molina, M. J.
Kim, M. W. *See* Wu, X. Z.
Kim, Seong-Gi; Ashe, James; Hendrich, Kristy; Ellermann, Jutta M.; Merkle, Hellmut; Uğurbil, Kâmil; Georgopoulos, Apostolos P.: Functional magnetic resonance imaging of motor cortex: hemispheric asymmetry and handedness. p615 30 July 1993.
Kimmel, Charles B. *See* Ho, Robert K.
King, Andrew J.: review of *The Merging of the Senses*, by Barry E. Stein and M. Alex Meredith. p928 13 Aug 1993.
King, J. W. *See* Park, J.
Kipps, Thomas, J. *See* Berberian, Linda.
Kishihara, Kenji. *See* Shahinian, Arda.
Kivelson, M. G.; Bargatze, L. F.; Khurana, K. K.; Southwood, D. J.; Walker, R. J.; Coleman, P. J., Jr.: Magnetic field signatures near Galileo's closest approach to Gaspra. p331 16 July 1993.
Kladde, Michael P. *See* Cullen, Katherine E.
Knecht, Kathryn: Women in Science '93: a "female styel"? (letter). p409 23 July 1993.
Knights, Ronald. *See* Arruda, Sergio.
Knoll, Andrew H. *See* Bowring, Samuel A.

Koch, Christian; Moll, Thomas; Neuberg, Manfred; Ahorn, Horst, Nasmyth, Kim: A role for the transcription factor Mbp1 and Swi4 in progression from G1 to S phase. p1551 17 Sep 1993.

Koeberl, Christian and Shirey, Steven B.: Detection of a meteoritic component in Ivory Coast tektites with rhenium-osmium isotopes. p595 30 July 1993.

Kohler, Robert E.: review of *Styles of Scientific Thought*, by Jonathan Harwood. p1061 20 Aug 1993.

Kohn, Leonard D. *See* Mozes, Edna.

Kojevnikov, Alexei: review of *Science in Russia and the Soviet Union*, by Loren R. Graham. p1336 3 Sep 1993.

Kokubo, Tetsuro. *See* Yamashita, Shinya.

Kolosov, Peter. *See* Bowring, Samuel A.

Komori, Toshihisa; Okada, Ami; Stewart, Valerie; Alt, Frederick W.: Lack of N regions in antigen receptor variable region genes of TdT-deficient lymphocytes. p1171 27 Aug 1993.

Koshland, Daniel E., Jr. (editorials): The career of scientific exploraion. p1659 24 Sep 1993. Clean thoughts on clean air. p1371 10 Sep 1993. Making wolves lovable. p531 30 July 1993. A scientific approach to governing. p275 16 July 1993. Simplicity and complexity in conflict of interest. p11 2 July 1993. Three good choices. p1099 27 Aug 1993. Journal policies on conflict of interest (letter). p1661 24 Sep 1993. A reader's response (letter). p533 30 July 1993.

Kosro, P. Michael. *See* Washburn, Libe.

Koup, Richard A. *See* Zhu, Tuofu.

Krishnamurty, M. *See* Monnier, A.

Krosigk, Marcus von; Bal, Thierry; McCormick, David A.: Cellular mechanisms of a synchronized oscillation in the thalamus. p361 16 July 1993.

Kuida, Keisuke. *See* Nakayama, Kei-ichi.

Kumar, D. *See* Monnier, A.

Kumar, Vasantha. *See* Zheng, Liangbiao.

Kumpf, Robert A. and Dougherty, Dennis A.: A mechanism for ion selectivity in potassium channels: computational studies of cation-π interactions. p1708 24 Sep 1993.

Kündig, Thomas M. *See* Shahinian, Arda.

Kupitz, Yuval and Atlas, Daphne: A putative ATP-activated Na^+ channel involved in sperm-induced fertilization. p484 23 July 1993.

L

Labandeira, Conrad C. and Sepkoski, J. John, Jr.: Insect diversity in the fossil record. p310 16 July 1993.

Labrie, Fernand: Let me count the ways (letter). p145 9 July 1993.

Lahav, M. *See* Majewski, J.

Lait, L. *See* Toon, O. *See also* Webster, C. R.

Lait, L. R. *See* Newman, P. *See also* Salawitch, R. J. *See also* Toohey, D. W.

Landman, Uzi. *See* Xia, T. K.

Langer, Stephen A. *See* Dickstein, Akiva J.

Lanyi, J. K. *See* Song, Li.

LaReau, Richard D. *See* Culver, Gloria M.

Largaespada, David A. *See* Rawlings, David J.

Largier, John L. *See* Washburn, Libe.

Larner, Andrew C.; David, Michael; Feldman, Gerald M.; Igarashi, Ken-ichi; Hackett, Rebecca H.; Webb, Deborah S. A.; Sweitzer, Sharon M.; Petricoin, Emanuel F., III; Finbloom, David S.: Tyrosine phosphorylation of DNA binding proteins by multiple cytokines. p1730 24 Sep 1993.

LaRosa, Gregory J. *See* Wu, Dianqing.

Larsson, Olof. *See* Juntti-Berggren, Lisa.

Lasch, S. J. *See* Trail, P. A.

Lash, Jonathan: Protecting the environment: EPA's role (letter). p1374 10 Sep 1993.

Latif, M. *See* Bengtsson, L.

LaTourrette, T. Z.; Kennedy, A. K.; Wasserburg, G. J.: Thorium-uranium fractionation by garnet: evidence for a deep source and rapid rise of oceanic basalts. p739 6 Aug 1993.

Lauerhaas, Jeffrey M. and Sailor, Michael J.: Chemical modification of the photoluminescence quenching of porous silicon. p1567 17 Sep 1993.

Laurila, Pekka. *See* Zhou, Jing.

Lay, T. *See* Vidale, J. E.

Leccese, Arthur P.: The missing AIDS science (letter). p665 6 Aug 1993.

Ledbetter, Jeffrey A. *See* Durie, Fiona H.

Lee, D. Scott. *See* Sharpton, Virgil L.

Lee, Eric J. *See* Love, Paul E.

Lee, Hon Cheung; Aarhus, Robert; Walseth, Timothy F.: Calcium mobilization by dual receptors during fertilization of sea urchin eggs. p352 16 July 1993.

Lee, Kelvin P. *See* Shahinian, Arda.

Lee, Kyoung J.; McCormick, W. D.; Quyang, Qi; Swinney, Harry L.: Pattern formation by interacting chemical fronts. p192 9 July 1993.

Lee, Michael S. Y.: The origin of the turtle body plan: bridging a famous morphological gap. p1716 24 Sep 1993.

Lee, Virgil J. *See* Collman, James P.

Leiserowitz, L. *See* Majewski, J.

Lemeur, Marianne. *See* Gilfillan, Susan.

Leveiller, F. *See* Majewski, J.

Levy, David E. *See* Silvennoinen, Olli.

Li, Ming; West, James W.; Numann, Randal; Murphy, Brian J.; Scheuer, Todd; Catterall, William A.: Convergent regulation of sodium channels by protein kinase C and cAMP-dependent protein kinase. p1439 10 Sep 1993.

Li, W. H. *See* Oppenheimer, D.

Licht, Stuart. *See* Peramunage, Dharmasena.

Lichtenstein, Lawrence M.: NIH funding mechanisms need little defense (policy forum). p17 2 July 1993.

Lieber, Charles M. *See* Niu, Chumming.

Lieberman, Daniel E.: Life history variables preserved in dental cementum microstructure. p1162 27 Aug 1993.

Liggitt, Denny. *See* Zhu, Ning.

Limmer, Andreas. *See* Chan, Iris T.

Linsky, Jeffrey L.: Hubble telescope research (letter). p665 6 Aug 1993.

Liotta, Lance A.: *Molecular and Cellular Aspects of Basement Membranes*, edited by David H. Rohrbach and Rupert Timpl. p1611 17 Sep 1993.

Lippard, Stephen J. *See* Brown, Steven J.

_____Bioinorganic chemistry: a maturing frontier (perspective). p699 6 Aug 1993.

Lipschutz, Michael E. *See* Hiroi, Takahiro.

Lis, John T. *See* Giardina, Charles.

Lisowski, M. *See* Oppenheimer, D.

Littman, Dan R. *See* Locksley, Richard M.

Liu, Chong-yang; Pan, Horng-long; Fox, Marye Anne; Bard, Allen J.: High-density nanosecond charge trapping in thin films of the photoconductor ZnODEP. p897 13 Aug 1993.

Liu, Pu; Tarlé, Susan A.; Hajra, Amitav; Claxton, David F.; Marlton, Paula; Freedman, Matthew; Siciliano, Michael J.; Collins, Francis S.: Fusion between transcription factor CBFβ/PEBP2β and a myosin heavy chain in acute myeloid leukemia. p1041 20 Aug 1993.

Liu, Yong. *See* Zhu, Ning.

Livingston, J. *See* Toon, O.

Livingston, Katherine: review of *Gregor Mendel's Experiments on Plant Hybrids*, by Alain F. Corcos and Floyd V. Monaghan. p370 16 July 1993. review of *Molds, Molecules, and Metazoa*, edited by Peter R. Grant and Henry S. Horn. p629 30 July 1993. review of *The Sexual Brain*, by Simon LeVay. p370 16 July 1993. review of "*Most of the Good Stuff*," edited by Laurie M. Brown and John S. Rigden. p629 30 July 1993.

Lloyd, Seth: A potentially realiable quantum computer. p1569 17 Sep 1993.

Locksley, Richard M.; Reiner, Steven L.; Hatam, Farah; Littman, Dan R.; Killeen Nigel: Helper T cells without CD4: control of leishmaniasis in CD4-deficient mice. p1448 10 Sep 1993.

Lodish, Harvey F.: Women in Science '93: a "female style"? (letter). p409 23 July 1993.

Loewenstein, M. *See* Proffitt, M. H. *See also* Salawitch, R. J. *See also* Wilson, J. C.

Loewenstein, Max. *See* Browell, Edward V.

Loh, Dennis Y. *See* Chan, Iris T. *See also* Nakayama, Kei-ichi.

Longo, M. L.; Bisagno, A. M.; Zasadzinski, J. A. N.; Bruni, R.; Waring, A. J.: A function of lung surfactant protein SP-B. p453 23 July 1993.

Lorenz, Michael. *See* Rayment, Ivan.

Lorenzo, Carlos. *See* Trentham, David E.

Louie, Marjorie C. *See* Chan, Iris T. *See also* Nakayama, Kei-ichi.

Love, Paul E.; Shores, Elizabeth W.; Johnson, Mark D.; Tremblay, Michel L.; Lee, Eric J.; Grinberg, Alexander; Huang, Sing Ping; Singer, Alfred; Westphal, Heiner: T cell development in mice that lack the ζ chain of the T cell antigen receptor complex. p918 13 Aug 1993.

Lovins, Amory B.: The cost of energy efficiency (letter). p969 20 Aug 1993.

Lowe, Katherine H.: A reader's response (letter). p533 30 July 1993.

Lu, Yuan Z. *See* Niu, Chumming.

Lucas, Phillip J. *See* Nakayama, Kei-ichi.

Lunine, Jonathan I.: Triton, Pluto, and the origin of the solar system (perspective). p697 6 Aug 1993.

Lusis, Aldons J. *See* Warden, Craig H.

Luth, Robert W.: Diamonds, eclogites, and the oxidation state of the Earth's mantle. p66 2 July 1993.

Lyman, Edwin; Berkhout, Frans; Feiveson, Harold: Disposing of weapons-grade plutonium. p813 13 Aug 1993.

M

Maasch, Kirk A. *See* Grimm, Eric C.

MacMicking, John D. *See* Karupiah, Gunasegaran.

Magee, M. *See* Oppenheimer, D.

Magnuson, Victoria. *See* Hamer, Dean.

Magnuson, Victoria L. *See* Hamer, Dean H.

Mahfouf, J.-F. *See* Cariolle, D.

Majewski, J.; Margulis, L.; Jacquemain, D.; Leveiller, F.; Böhm, C.; Arad, T.; Talmon, Y.; Lahav, M.; Leiserowitz, L.: Electron diffraction and imaging of uncompressed monolayers of amphiphilic molecules on vitreous and hexagonal ice. p899 13 Aug 1993.

Mak, Tak W. *See* Chan, Iris T. *See also* Shahinian, Arda.

Maki, Richard. *See* Nelsen, Barbara.

Malenka, Robert C. *See* Mulkey, Rosel M.

Mangel, W. F. *See* Singer, P. T.

Mann, Charles and Crease, Robert (news): Gran Sasso: particle physics without mountains of money. p1276 3 Sep 1993.

Mann, Stephen; Archibald, Douglas D.; Didymus, Jon M.; Douglas, Trevor; Heywood, Brigid R.; Meldrum, Fiona C.; Reeves, Nicholas J.: Crystallization at inorganic-organic interfaces: biominerals and biomimetic synthesis. p1286 3 Sep 1993.

Mansour, Kamjou. *See* Marder, Seth R.

Mantovani, Alberto. *See* Colotta, Francesco.

Manz, Andreas. *See* Harrison, D. Jed.

Marder, Seth R.; Perry, Joseph W.; Bourhill, Grant; Gorman, Christopher B.; Tiemann, Bruce G.; Mansour, Kamjou: Relation between bond-length alternation and second electronic hyperpolarizability of conjugated organic molecules. p186 9 July 1993.

Margitan, J. J. *See* Proffitt, M. H.

Margolese, D. *See* Monnier, A.

Margulis, L. *See* Majewski, J.

Marin, Luis E. *See* Sharpton, Virgil L.

Marlton, Paula. *See* Liu, Pu.

Marshall, Eliot (news): Balancing scallops with shrimp. p677 6 Aug 1993. Court orders 'sharing' of data. p284 16 July 1993. Senate turns up the heat on NSF. p1512 17 Sep 1993. U.S. may renew collaboration after China relents on data. p677 6 Aug 1993. Varmus tapped to head NIH. p820 13 Aug 1993. When the source is a suspect. p285 16 July 1993. White House plans new science council. p1513 17 Sep 1993.

Marshall, Eliot (computing in science): Fitting planet Earth into a user-friendly database. p846 13 Aug 1993.

Marshall, G. *See* Oppenheimer, D.

Marvin, Ursula B.: review of *To a Rocky Moon*, by Don E. Wilhelms. p231 9 July 1993.

Marx, Jean (news): Learning how to suppress cancer. p1385 10 Sep 1993. New lead to an Alzheimer's mouse? p1520 17 Sep 1993. New role for gene linked to metastasis suppression? p428 23 July 1993. Role of gene defect in hereditary ALS clarified. p986 20 Aug 1993.

Mason, Stephen W. *See* Andrews, Brenda J.

Mathey, W. J.: Strangers in the woodpile (letter). p14 2 July 1993.

Mathis, Diane. *See* Gilfillan, Susan.

Maxwell, R. S. *See* Monnier, A.

May, R. D. *See* Salawitch, R. J. *See also* Webster, C. R.

Mayewski, P. A.; Meeker, L. D.; Whitlow, S.; Twickler, M. S.; Morrison, M. C.; Alley, R. B.; Bloomfield, P.; Taylor, K.: The atmosphere during the Younger Dryas. p195 9 July 1993.

McCammon, Catherine: Composition limits of Fe_xO and the Earth's lower mantle (technical comment). p924 13 Aug 1993.

McCandless, T. E. and Ruiz, J.: Rhenium-osmium evidence for regional mineralization in southwestern North America. p1282 3 Sep 1993.

McCaughran, Donald. *See* Aron, William.

McCobb, David P. *See* Butler, Alice.

McCormick, David A. *See* Krosigk, Marcus von.

McCormick, W. D. *See* Lee, Kyoung J.

McCraith, Stephen M. *See* Culver, Gloria M.

McDougall, Alex. See Galione, Antony.
McHugh, William D.: Dental institute report (letter). p533 30 July 1993.
McKay, David S. See Keller, Lindsay P.
McMahon, J. R. See Molina, M. J.
McMillan, Paul F. See Pawley, Alison R.
McNaughton, Bruce L. See Wilson, Matthew A.
McPherson, R. See Oppenheimer, D.
Meadow, R. See Weiss, H.
Medaer, Robert. See Zhang, Jingwu.
Meeker, L. D. See Mayewski, P. A.
Meldrum, Fiona C. See Mann, Stephen.
Mendillo, Michael. See Flynn, Brian.
Menozzi, Paolo. See Cavalli-Sforza, L. L.
Merkle, Hellmut. See Kim, Seong-Gi.
Merlie, John P. See Cheng, Tse-Chang.
Mervis, Jeffrey (news): Clinton moves to manage science. p1668 24 Sep 1993. A different kind of grants program. p1269 3 Sep 1993. Donna Shalala and the future of NIH. p20 2 July 1993. Gibbons breaks mold on appointments. p979 20 Aug 1993. NSF balks at grants to entrepreneurs. p1384 10 Sep 1993. Regulations go swimmingly. p542 30 July 1993. Report takes aim at 50 new projects. p823 13 Aug 1993. Rice University physicist nominated to lead NSF. p419 23 July 1993. Science cedes ground to environmental concerns. p676 6 Aug 1993. Supreme Court to judges: start thinking like scientists. p22 2 July 1993. 'Greener' military pays off for civilian scientists. p1268 3 Sep 1993.
Mervis, Jeffrey and Fox, Karen (news): A Senate victory would turn the tide after House defeat. p288 16 July 1993.
Meyerowitz, Elliot M. See Weigel, Detlef.
Michel, F. Curtis: "Millisecond" pulsars (letter). p1664 24 Sep 1993.
Michaud, Neil. See Culver, Gloria M.
Miller, Christopher: Potassium selectivity in proteins: oxygen cage or π in the face? (perspective). p1692 24 Sep 1993.
Miller, Louis H. See Horuk, Richard.
Miller, Peter M.: The cost of energy efficiency (letter). p970 20 Aug 1993.
Milligan, Ronald A. See Rayment, Ivan.
Michel, Curtis F.: "Millisecond" pulsars (letter). p1664 24 Sep 1993.
Mitchell, D. See Britt, A. B.
Mitchison, T. J.: Localization of an exchangeable GTP binding site at the plus end of microtubules. p1044 20 Aug 1993.
Mlot, Christine (news): Isle Royale: end of an era? p1115 27 Aug 1993. Pathogens take charge. p1116 27 Aug 1993.
Mo, Hongmei. See Zhu, Tuofu.
Mo, Y. W.: Reversible rotation of antimony dimers on the silicon (001) surface with a scanning tunneling microscope. p886 13 Aug 1993.
Mochizuki, Toshio. See Zhou, Jing.
Moffat, Anne Simon (careers in science): Chemists at work. p1791 24 Sep 1993. (careers in science) Molecular medicine: a calling for the dual degreed. p1786 24 Sep 1993. (news) Clearcutting's soil effects. p1116 27 Aug 1993. Dams, levees, and river health. p1115 27 Aug 1993. New chemicals seek to outwit insect pests. p550 30 July 1993.
Mohr, Randolph N. See Rawlings, David J.
Molina, M. J.; Zhang, R.; Wooldridge, P. J.; McMahon, J. R.; Kim, J. E.; Chang, H. Y.; Beyer, K. D.: Physical chemistry of the $H_2SO_4/HNO_3/H_2O$ system: implications for polar stratospheric clouds. p1418 10 Sep 1993.
Moll, Thomas. See Koch, Christian.
Momburg, Frank. See Neefjes, Jacques J.
Monnier, A.; Schüth, F.; Huo, Q.; Kumar, D.; Margolese, D.; Maxwell, R. S.; Stucky, G. D.; Krishnamurty, M.; Petroff, P.; Firouzi, A.; Janicke, M.; Chmelka, B. F.: Cooperative formation of inorganic-organic interfaces in the synthesis of silicate mesostructures. p1299 3 Sep 1993.
Montminy, Marc: Trying on a new pair of Sh2s. p1694 24 Sep 1993.
Moore, John C.; de Ruiter, Peter C.; Hunt, H. William: Influence of productivity on the stability of real and model ecosystems. p906 13 Aug 1993.
Moran, Edmund J. See Cho, Charles Y.
Morell, Virginia (careers in science): Anthropology: nature-culture battleground. p1798 24 Sep 1993. (news) Australian pest control by virus causes concern. p683 6 Aug 1993. Difficulties with dinosaur DNA. p161 9 July 1993. Dino DNA: the hunt and the hype. p160 9 July 1993. How lethal was the K/T impact? p1518 17 Sep 1993.
Morgane, Peter J. See Glezer, Ilya I.
Morimoto, Chikao. See Kameoka, Junichi.
Morrison, M. C. See Mayewski, P. A.
Mozes, Edna; Kohn, Leonard D.; Hakim, Fran; Singer, Dinah S.: Resistance of MHC class I–deficient mice to experimental systemic lupus erythematosus. p91 2 July 1993.
Muegge, K.; Vila, M. P.; Durum, S. K.: Interleukin-7: a cofactor for V(D)J rearrangement of the T cell receptor β gene. p93 2 July 1993.
Mueller, Manfred W.; Hetzer, Martin; Schweyen, Rudolf J.: Group II intron RNA catalysis of progressive nucleotide insertion: a model for RNA editing. p1035 20 Aug 1993.
Mulkey, Rosel M.; Herron, Caroline E.; Malenka, Robert C.: An essential role for protein phosphatases in hippocampal long-term depression. p1051 20 Aug 1993.
Munro, Sean. See Bretscher, Mark S.
Murphy, Brian J. See Li, Ming.
Murphy, Elizabeth C. See Judice, J. Kevin.
Murray, M. See Oppenheimer, D.
Murrer, Barry A. See Abrams, Michael J.
Muzio, Marta. See Colotta, Francesco.
Myers, Fred (news): A heavy ion accelerator gears up to fight cancer. p1270 3 Sep 1993.
Myers, Lawrence C.; Terranova, Michael P.; Ferentz, Ann E.; Wagner, Gerhard; Verdine, Gregory L.: Repair of DNA methylphosphotriesters through a metalloactivated cysteine nucleophile. p1164 27 Aug 1993.
Myers, Martin G. See Wang, Ling-Mei.

N and O

Nadler, Steven A.: review of *Parascript*, by Daniel R. Brooks and Deborah A. McLennan. p927 13 Aug 1993.
Nagatani, R. See Newman, P.
Nagy, Jon O. See Charych, Deborah H.
Nakano, Toru. See Tashiro, Kei.
Nakatani, Yoshihiro. See Yamashita, Shinya.
Nakayama, Kei-ichi; Nakayama, Keiko; Negishi, Izumi; Kuida, Keisuke; Shinkai, Yoichi; Louie, Marjorie C.; Fields, Larry E.; Lucas, Phillip J.; Stewart, Valerie; Alt, Frederick W.; Loh, Dennis Y.: Disappearance of the lymphoid system in Bcl-2 homozygous mutant chimeric mice. p1584 17 Sep 1993.
Nakayama, Kelko. See Nakayama, Kei-ichi.
Nam, Daniel S. See Zhu, Tuofu.
Nash, E. R. See Newman, P.
Nasmyth, Kim. See Koch, Christian
Nathan, Carl. See Karupiah, Gunasegaran.
Navrotsky, Alexandra: How much do we know about mantle thermochemistry? (perspective). p168 9 July 1993.
Neefjes, Jacques J.; Momburg, Frank; Hämmerling, Günter J.: Selective and ATP-dependent translocation of peptides by the MHC-encoded transporter. p769 6 Aug 1993.
Negishi, Izumi. See Nakayama, Kei-ichi.
Negrotto, David. See Gaffney, Thomas.
Nelsen, Barbara; Tian, Gang; Erman, Batu; Gregoire, Jacqueline; Maki, Richard; Graves, Barbara; Sen, Ranjan: Regulation of lymphoid-specific immunoglobulin μ heavy chain gene enhancer by ETS-domain proteins. p82 2 July 1993.
Neuberg, Manfred. See Koch, Christian.
Newman, P. See Toon, O. See *also* Webster, C. R.
_____; Lait, L. R.; Schoeberl, M.; Nash, E. R.; Kelly, K.; Fahey, D. W.; Nagatani, R.; Toohey, D.; Avallone, L.; Anderson, J.: Stratospheric meteorological conditions in the Arctic polar vortex, 1991 to 1992. p1143 27 Aug 1993.
Newman, P. A. See Salawitch, R. J. See *also* Toohey, D. W.
Nicholson, Richard S.: Postmodernism (editorial). p143 9 July 1993.
Nicotera, Pierluigi. See Juntti-Berggren, Lisa.
Nilges, Michael. See Brünger, Axex T.
Niu, Chumming; Lu, Yuan Z.; Lieber, Charles M.: Experimental realization of the covalent solid carbon nitride. p334 16 July 1993.
Noelle, Randolph J. See Durie, Fiona H.
Nojima, Yoshihisa. See Kameoka, Junichi.
Nolan, James M.; Burke, Donald H.; Pace, Norman R.: Circularly permuted tRNAs as specific photoaffinity probes of ribonuclease P RNA structure. p762 6 Aug 1993.
Norgard-Sumnicht, Karin E.; Varki, Nissi M.; Varki, Ajit: Calcium-dependent heperin-like ligands for L-selection in nonlymphoid endotheliai cells. p480 23 July 1993.
Normile, Dennis (careers in science): Researching the Japanese job market. p1774 24 Sep 1993. (careers in science). Surprise! foreigners can get jobs in Japan p1774 24 Sep 1993.
Noss, Reed F.: How much wilderness? (letter). p1663 24 Sep 1993.
Numann, Randal. See Li, Ming.
Nur, Amos; Ron, Hagai; Beroza, Gregory C.: The nature of the Landers-Mojave earthquake line. p201 9 July 1993.
Nye, Gordon. See Gaffney, Thomas.
O'Halloran, Thomas V.: Transition metals in control of gene expression. p715 6 Aug 1993.
O'Neill, Hugh: Earth's early mantle (letter). p666 6 Aug 1993.
Ocko, B. M. See Wu, X. Z.
Oelkers, Eric H. and Helgeson, Harold C.: Multiple ion association in supercritical aqueous solutions of single elecrolytes. p888 13 Aug 1993.
Ogilvie, K. W. See Gloeckler, G.
Oh, Justin. See Rabizadeh, Shahrooz.
Ohashi, Pamela S. See Shahinian, Arda.
Okada, Ami. See Komori, Toshihisa.
Olby, Robert: Biology at Caltech (letter). p1506 17 Sep 1993.
Olson, Eric N. See Cheng, Tse-Chang.
Omichinski, James G.; Clore, G. Marius; Schaad, Olivier; Felsenfeld, Gary; Trainor, Cecelia; Appella, Ettore; Stahl, Stephen J.; Gronenborn, Angela M.: NMR structure of a specific DNA complex of Zn-containing DNA binding domain of GATA-1. p438 23 July 1993.
Oppenheimer, D.; Beroza, G.; Carver, G.; Dengler, L.; Eaton, J.; Gee, L.; Gonzalez, F.; Jayko, A.; Li, W. H.; Lisowski, M.; Magee, M.; Marshall, G.; Murray, M.; McPherson, R.; Romanowicz, B.; Satake, K.; Simpson, R.; Somerville, P.; Stein, R.; Valentine, D.: The Cape Mendocino, California, earthquakes of April 1992: subduction at the Triple Junction. p433 23 July 1993.
Orav, E. John. See Trentham, David E.
Oriani, Richard A.: Cold fusion difficulty (letter). p279 16 July 1993.
Orrenius, Sten. See Juntti-Berggren, Lisa.
Osborn, M. See Wilson, J. C.
Osborne, Barbara: Women in Science '93: a "female style"? (letter). p411 23 July 1993.
Ostro, S. J. See Rignot, E. J.
Ouahab, Lahcène. See Stumpf, Humberto O.
Owen, Tobias C. See Cruikshank, Dale P. See *also* Tryka, Kimberly A.
Ozer, Daniel J.: review of *Fifty Years of Personality Psychology*, edited by Kenneth H. Craik, Robert Hogan, and Raymond H. Wolfe. p1754 24 Sep 1993.
_____; Roush, Ted L.; Cruikshank, Dale P.; Elliot, James L.; Young, Leslie A.; de Bergh, Catherine; Schmitt, Bernard; Geballe, Thomas R.; Brown, Robert H.; Bartholomew, Mary Jane: Surface ices and the atmospheric composition of Pluto. p745 6 Aug 1993.

P

Pabo, Carl O. See Pavletich, Nikola P.
Pace, Norman R. See Nolan, James M.
Pan, Horng-long. See Liu, Chong-yang.
Parge, Hans E. See Deng, Han-Xiang.
Park, J.; D'Hondt, S. L.; King, J. W.; Gibson, C.: Late Cretaceous precessional cycles in double time: a warm-Earth Milankovitch response. p1431 10 Sep 1993.
Park, Jeffrey and Yu, Yang: Seismic determination of elastic anisotropy and mantle flow. p1159 27 Aug 1993.
Parker, M. A. See Hylton, T. L.
Pattatucci, Angela. See Hamer, Dean.
Pattatucci, Angela M. L. See Hamer, Dean H.
Paul, William E. See Thomas, Jeffrey D.
Pavletich, Nikola P. and Pabo, Carl O.: Crystal structure of a five-finger GLI-DNA complex: new perspectives on zinc fingers. p1701 24 Sep 1993.
Pawley, Alison R.; McMillan, Paul F.; Holloway, John R.: Hydrogen in stishovite, with implications for mantle water content. p1024 20 Aug 1993.
Peacor, Donald R. See Shau, Yen-Hong.
Pearson, John E.: Complex patterns in a simple system. p189 9 July 1993.
Pei, Yu. See Stumpf, Humberto O.
Pelechaty, Shane M. See Bowring, Samuel A.

Peramunage, Dharmasena and Licht, Stuart: A solid sulfur cathode for aqueous batteries. p1029 20 Aug 1993.
Pericak-Vance, M. A. See Corder, E. H.
Pericak-Vance, Margaret A. See Deng, Han-Xiang.
Perona, John J.; Craik, Charles S.; Fletterick, Robert J.: Locating the catalytic water molecule in serine proteases (technical comment). p620 30 July 1993.
Perring, Thomas M.; Farrar, Charles A.; Cooper, Arthur D.; Bellows, Thomas S., Jr.; Rodriguez, Russel J.: Determining whitefly species. p1334 3 Sep 1993.
Perry, Joseph W. See Marder, Seth R.
Peterson, Julian A. See Ravichandran, Kurumbail G.
Petricoin, Emanuel F., III. See Larner, Andrew C.
Petroff, P. See Monnier, A.
Pfeffer, Klaus. See Shahinian, Arda.
Phizicky, Eric M. See Culver, Gloria M.
Piazza, Alberto. See Cavalli-Sforza, L. L.
Pierce, F. S.; Poon, S. J.; Guo, Q.: Electron localization in metallic quasicrystals. p737 6 Aug 1993.
Pierce, Jacalyn H. See Wang, Ling-Mei.
Pieters, Carlé M. See Hiroi, Takahiro.
Pini, Adrian: Chemorepulsion of axons in the developing mammalian central nervous system. p95 2 July 1993.
Pitts, M. C. See Wilson, J. C.
Plano, Robert J. See Safinya, Cyrus R.
Podolske, J. R. See Proffitt, M. H. See also Salawitch, R. J. See also Wilson, J. C.
Podolske, James R. See Browell, Edward V.
Polentarutti, Nadia. See Colotta, Francesco.
Pool, Robert (news): Evidence for homosexuality gene. p291 16 July 1993. Magnetic films get sensitivity training. p984 20 Aug 1993.
Pool, Robert (computing in science): Beyond databases and E-mail. p841 13 Aug 1993. Networking the worm. p842 13 Aug 1993.
Poole, L. R. See Wilson, J. C.
Poon, S. J. See Pierce, F. S.
Poreda, Robert J. See Basu, Asis R.
Porro, Jeffrey (Inside AAAS): 20th anniversary of congressional fellowship program. p1190 27 Aug 1993. Profile: science and policy. p1190 27 Aug 1993.
Postel, E. H.; Berberich, S. J.; Flint, S. J.; Ferrone, C. A.: Human c-myc transcription factor PuF identified as nm23-H2 nucleoside diphosphate kinase, a candidate suppressor of tumor metastasis. p478 23 July 1993.
Powell, Douglas (news): Agency head quits, warning of cuts. p1384 10 Sep 1993.
Pragnell, Marlon. See Witcher, Derrick R.
Pratt, Gregory C.: Protecting the environment: EPA's role (letter). p1374 10 Sep 1993.
Proctor, Robert N. See Schiebinger, Londa.
Proffitt, M. H. See Salawitch, R. J.
_____; Aikin, K.; Margitan, J. J.; Loewenstein, M.; Podolske, J. R.; Weaver, A.; Chan, K. R.; Fast, H.; Elkins, J. W.: Ozone loss inside the Northern polar vortex during the 1991–1992 winter. p1150 27 Aug 1993.
Ptashne, Mark. See Reece, Richard J.
Pueschel, R. See Toon, O.
Puster, Peter. See Jordan, Thomas H.
Pyle, Anna Marie: Ribozymes: a distinct class of metalloenzymes. p709 6 Aug 1993.

Q and R

Qiao, Jian-Hua. See Warden, Craig H.
Quezada-Muñeton, Juan Manuel. See Sharpton, Virgil L.
Quyang, Qi. See Lee, Kyoung J.
Rabizadeh, Shahrooz; Oh, Justin; Zhong, Li-tao; Yang, Jie; Bitler, Catherine M.; Butcher, Larry L.; Bredesen, Dale E.: Induction of apoptosis by the low-affinity NGF receptor. p345 16 July 1993.
Ramp, Steven R. See Washburn, Libe.
Rand, James B. See Alfonso, Aixa.
Random Samples: Wanted: work for 50,000 suns. p827 13 Aug 1993.
Random Samples: African TB research gets a boost. p159 9 July 1993. Agent Orange risks reassessed. p679 6 Aug 1993. Andromeda leads a double life. p422 23 July 1993. Arctic research: the cold war chills out. p26 2 July 1993. Breaking up (a bomb) is hard to do. p1673 24 Sep 1993. Chemists tell tales from beyond the grave. p158 9 July 1993. Crimson alchemy. p423 23 July 1993. Diamond—a gear's best friend. p1673 24 Sep 1993. Diet for a small pika. p989 20 Aug 1993. Dinosaur egg bonanza floods U.S. market. p679 6 Aug 1993. DNA with a designer name. p826 13 Aug 1993. DOE doles out millions for high tech tools. p826 13 Aug 1993. Engineer gets life for deaths. p1119 27 Aug 1993. EPA deflates 'green competition' p989 20 Aug 1993. A face-off on Mars. p1392 10 Sep 1993. FAO sounds soil-loss siren. p423 23 July 1993. FDA to make hard decision on folic acid. p1118 27 Aug 1993. Fishing for missing links with a chain. p553 30 July 1993. Five failed controversial Olympics sex test. p27 2 July 1993. Flood uproots transgenic crop. p1271 3 Sep 1993. French AIDS tests get the hook. p679 6 Aug 1993. French get a head in the fossil hunt. p1525 17 Sep 1993. From shuttle tiles to bone implants. p26 2 July 1993. Fullerene superconducters heat up. p1392 10 Sep 1993. Gallo case spawns new drama. p553 30 July 1993. Good booze and the Higgs boson. p1393 10 Sep 1993. Good chemistry at electronic conference. p1271 3 Sep 1993. Gordon Conferences picks new head. p1392 10 Sep 1993. The greening of global climate models. p1673 24 Sep 1993. Healy stokes fire over minority hiring. p422 23 July 1993. House votes big to kill SSC. p27 2 July 1993. Kinsey Institute unhappy again. p290 16 July 1993. Krebs nominated for top energy research. p553 30 July 1993. Labor to kill 'shortage' list. p26 2 July 1993. Magellan chases Venus and money. p989 20 Aug 1993. Making a chemical warfare treaty work. p826 13 Aug 1993. A Manhattan Project by any other name . . . . p827 13 Aug 1993. Molecular biologists in paper popularity contest. p989 20 Aug 1993. Moondust in your eyes. p1525 17 Sep 1993. Mt. Unzen be dammed! p827 13 Aug 1993. New AIDS drug leaps over the counter. p422 23 July 1993. A new beginning. p1118 27 Aug 1993. New cholera strain arouses concern. p1119 27 Aug 1993. NIH survey: Scripps-Sandoz deal unusual. p27 2 July 1993. NRC brushes off fluoride concerns. p1118 27 Aug 1993. Oceanographers find hotbed of sea creatures. p159 9 July 1993. Oregon natural history gets its own museum. p826 13 Aug 1993. Ozone prediction hits it right on the nose. p290 16 July 1993. Physicists collide over SSC. p1118 27 Aug 1993. Physicists make tiny fingers for tiny jobs. p1119 27 Aug 1993. Plenty of blame for all in quake panic. p1673 24 Sep 1993. Press takes parting shot at station. p26 2 July 1993. Processing the new coke fiasco. p1271 3 Sep 1993. Rice researchers score once more. p290 16 July 1993. Roll over, Keck telescope? p27 2 July 1993. Science fiction invades Mars. p158 9 July 1993. Skin-deep insecticide straitjackets pests. p158 9 July 1993. Species protection moves at snail's pace. p1393 10 Sep 1993. Spinal trial gets stopped. p1525 17 Sep 1993. Star wars sensors to sneak peak at asteroid. p1119 27 Aug 1993. State backs breast cancer research. p1271 3 Sep 1993. Tales of the coming mega-greenhouse. p553 30 July 1993. Top AIDS researcher to do time. p422 23 July 1993. Toxicologists watch as the worm turns. p1525 17 Sep 1993. U.K. changes mind about malaria vaccine. p1392 10 Sep 1993. When worlds don't collide: Earth escapes. p159 9 July 1993. White House wins an AIDS czarina. p158 9 July 1993. WHOI report deep sixes ocean dumping. p423 23 July 1993. Why map Y? p679 6 Aug 1993. Zoo horse may heed call to the wild. p290 16 July 1993.
Raus, Jef. See Zhang, Jingwu.
Ravichandran, Kurumbail G.; Boddupalli, Sekhar S.; Hasemann, Charles A.; Peterson, Julian A.; Deisenhofer, Johann: Crystal structure of hemoprotein domain of P450BM-3, a prototype for microsomal P450's. p731 6 Aug 1993.
Rawlings, David J.; Saffran, Douglas C.; Tsukada, Satoshi; Largaespada, David A.; Grimaldi, J. Christopher; Cohen, Lucie; Mohr, Randolph N.; Bazan, J. Fernando; Howard, Maureen; Copeland, Neal G.; Jenkins, Nancy A.; Witte, Owen N.: Mutation of unique region of Bruton's tyrosine kinase in immunodeficient XID mice. p358 16 July 1993.
Rayment, Ivan; Holden, Hazel M.; Whittaker, Michael; Yohn, Christopher B.; Lorenz, Michael; Holmes, Kenneth C.; Milligan, Ronald A.: Structure of the actin-myosin complex and its implications for muscle contraction. p58 2 July 1993.
Rayment, Ivan; Rypniewski, Wojciech R.; Schmidt-Bäse, Karen; Smith, Robert; Tomchick, Diana R.; Benning, Matthew M.; Winkelmann, Donald A.; Wesenberg, Gary; Holden, Hazel M.: Three-dimensional structure of myosin subfragment-1: a molecular motor. p50 2 July 1993.
Re, Fabio. See Colotta, Francesco.
Reddy, Satish C. See Trefethen, Lloyd N.
Reece, Richard J. and Ptashne, Mark: Determinants of binding-site specificity among yeast C_6 zinc cluster proteins. p909 13 Aug 1993.
Reeders, Stephen T. See Zhou, Jing.
Reeves, Nicholas J. See Mann, Stephen.
Reiner, Steven L. See Locksley, Richard M.
Reiter, Wolf-Dieter; Chapple, Clint C. S.; Somerville, Chris R.: Altered growth and cell walls in a fucose-deficient mutant of *Arabidopsis*. p1032 20 Aug 1993.
Renne, Paul R. See Basu, Asis R.
Richards, Mark A. See Wicks, Charles W., Jr.
Richter, Burton: B factory proposals (letter). p1505 17 Sep 1993.
Riganati, John P. See Thorndyke, Lloyd M.
Rignot, E. J.; Ostro, S. J.; van Zyl, J. J.; Jezek, K. C.: Unusual radar echoes from the Greenland ice sheet. p1710 24 Sep 1993.
Riley, Lee W. See Arruda, Sergio.
Roberts, Leslie (news): A thin lifeline to genome researchers. p1382 10 Sep 1993.
Rodriguez, Russel J. See Perring, Thomas M.
Rodrilguez, Jose M.: Probing stratospheric ozone (perspective). p1128 27 Aug 1993.
Roeckner, E. See Bengtsson, L.
Roeder, Robert G. See Yamashita, Shinya.
Romanowicz, B. See Oppenheimer, D.
Rome, Lawrence C.; Swank, Douglas; Corda, David: How fish power swimming. p340 16 July 1993.
Ron, Hagai. See Nur, Amos.
Roos, John F. See Aron, William.
Roos, Raymond P. See Deng, Han-Xiang.
Rorsman, Patrik. See Juntti-Berggren, Lisa.
Rosenberger, David: Choose your poison. p815 13 Aug 1993.
Roses, A. D. See Corder, E. H.
Roses, Allen D. See Deng, Han-Xiang.
Rosette, Caridad. See Devary, Yoram.
Rothman, Kenneth J.: Journal policies on conflict of interest. (letter). p1661 24 Sep 1993.
Roush, Ted L. See Cruikshank, Dale P. See also Owen, Tobias C.
Rowland, F. Sherwood: Ozone depletion theory (letter). p1102 27 Aug 1993.
Rubin, Andrew L.: Tuberculosis mortality decline (letter). p277 16 July 1993.
Ruff-Jamison, Susan; Chen, Katherine; Cohen, Stanley: Induction of EGF and Interferon-γ of tyrosine phosphorylated DNA binding proteins in mouse liver nuclei. p1733 24 Sep 1993.
Ruiz, J. See McCandless, T. E.
Ruiz-Carrillo, Adolf. See Côté, Jacques.
Russell, P. See Toon, O.
Ryals, John. See Gaffney, Thomas.
Rybicki, Anne. See Horuk, Richard.
Rydell, Robert W.: review of *A View to a Death in the Morning*, by Matt Cartmill. p1609 17 Sep 1993.
Rypniewski, Wojciech R. See Rayment, Ivan.

S

Sadowski, Henry B.; Shuai, Ke; Darnell, James E., Jr.; Gilman, Michael Z.: A common nuclear signal transduction pathway activated by growth factor and cytokine receptors. p1739 24 Sep 1993.
Saffran, Douglas C. See Rawlings, David J.
Saffrich, Rainer. See Brünger, Axex T.
Safinya, Cyrus R.; Sirota, Eric B.; Bruinsma, Robijn F.; Jeppesen, Claus; Plano, Robert J.; Wenzel, Lawrence J.: Structure of membrane surfactant and liquid crystalline smectic lamellar phases under flow. p588 30 July 1993.
Sailor, Michael J. See Lauerhaas, Jeffrey M.
Sakamoto, Jun-shi. See Witcher, Derrick R.
Salawitch, R. J.; Wofsy, S. C.; Gottlieb, E. W.; Lait, L. R.; Newman, P. A.; Schoeberl, M. R.; Loewenstein, M.; Podolske, J. R.; Strahan, S. E.; Proffitt, M. H.; Webster, C. R.; May, R. D.; Fahey, D. W.; Baumgardner, D.; Dye, J. E.; Wilson, J. C.; Kelly, K. K.; Elkins, J. W.; Chan, K. R.; Anderson, J. G.: Chemicals loss of ozone in the Arctic polar vortex in the winter of 1991–1992. p1146 27 Aug 1993.
Salkoff, Lawrence. See Butler, Alice.
Sancho, Jaime. See Hall, Craig G.
Sarokin, David: Protecting the environment: EPA's role (letter). p1373 10 Sep 1993.
Satake, K. See Oppenheimer, D.
Saunders, A. M. See Corder, E. H.
Sawyer, R. F. See Calvert, J. G.
Schaad, Olivier. See Omichinski, James G.
Schachman, Howard K.: What is misconduct in science?

(policy forum). p148 9 July 1993.
Scheuer, Todd. See Li, Ming.
Schieber, Marc H. and Hibbard, Lyndon S.: How somatotopic is the motor cortex hand area? p489 23 July 1993.
Schiebinger, Londa and Proctor, Robert N.: Women in Science '93: a "female style"? (letter). p408 23 July 1993.
Schindler, Christian. See Silvennoinen, Olli.
Schlese, U. See Bengtsson, L.
Schlessinger, Joseph. See Silvennoinen, Olli.
Schlick, Shulamith: Women in Science '93: a "female style"? (letter). p411 23 July 1993.
Schlossman, Stuart F. See Kameoka, Junichi.
Schmechel, D. E. See Corder, E. H.
Schmidt-Bäse, Karen. See Rayment, Ivan.
Schmitt, Bernard. See Cruikshank, Dale P. See also Owen, Tobias C.
Schneider, Rainer; Unger, Gabriele; Stark, Robert; Schneider-Scherzer, Elisabeth; Thiel, Heinz-Jürgen: Identification of a structural glycoprotein of an RNA virus as a ribonuclease. p1169 27 Aug 1993.
Schneider-Scherzer, Elisabeth. See Schneider, Rainer.
Schoeberl, M. See Newman, P. See also Toon, O.
Schoeberl, M. R. See Salawitch, R. J. See also Toohey, D. W. See also Webster, C. R.
Schoeberl, Mark R. See Browell, Edward V.
Schultz, Peter G. See Cho, Charles Y. See also Judice, J. Kevin.
Schüth, F. See Monnier, A.
Schwartz, D. K. See Viswanathan, R.
Schwartz, Michal. See Eitan, Shoshana.
Schwartz, William J.: review of *Molecular Genetics of Biological Rhythms*, edited by Michael W. Young. p772 6 Aug 1993.
Schweber, Silvan: review of *Genius in the Shadows*, by William Lanquette. p1461 10 Sep 1993.
Schweyen, Rudolf J. See Mueller, Manfred W.
ScienceScope: Army expected to clear AIDS scientist. p19 2 July 1993. Army to test only MicroGeneSys vaccine. p819 13 Aug 1993. Biodiversity treaty may face Senate fight. p1379 10 Sep 1993. Biotech firm licenses taxol-making fungus. p539 30 July 1993. Budget bill bittersweet for high-tech firms. p819 13 Aug 1993. Budget cuts loom for SSC. p1379 10 Sep 1993. . . . But hints of drug price controls. p1667 24 Sep 1993. Chinese to map a favorite foodstuff. p19 2 July 1993. Clinton poised to tap NSF director? p283 16 July 1993. Congress faces busy environmental agenda. p1263 3 Sep 1993. Congress mobilizes against hantavirus. p415 23 July 1993. Dingell pursues AIDS patient 'cover up.' p539 30 July 1993. DOE cuts red tape to boost tech transfer. p671 6 Aug 1993. DOE research urged to focus on environment. p151 9 July 1993. EPA's top science choice bows out. p671 6 Aug 1993. Fall on the Hill. p1263 3 Sep 1993. FAO geneticist caught in election turmoil. p415 23 July 1993. FCCSET develops neurotoxicology primer. p975 20 Aug 1993. FDA examines industry-researcher ties. p1379 10 Sep 1993. FDA mandates diversity data on drugs. p1379 10 Sep 1993. FDA to rescue Russian vaccine program. p151 9 July 1993. Health plan skips research fund . . . . p1667 24 Sep 1993. HHS fumbles ball on AIDS vaccine trial. p151 9 July 1993. Intrigue grows around Redfield report. p283 16 July 1993. Investing in science, Clinton-style. p975 20 Aug 1993. Just say no, Brown tells agencies. p1667 24 Sep 1993. Mars Observer: phone home!. p1107 27 Aug 1993. NASA looks at Freedom-Mir union. p671 6 Aug 1993. NIH may cut support for graduate students. p415 23 July 1993. NIH sinks its teeth into dental debate. p975 20 Aug 1993. NOAA makes water plan a high priority. p151 9 July 1993. NRC, toxicologists butt heads over lead. p539 30 July 1993. NSF: what's in a name? p1263 3 Sep 1993. Open season on indirect costs. p819 13 Aug 1993. Opposition mounts to 60% solution. p1667 24 Sep 1993. ORI loses first appeals hearing. p819 13 Aug 1993. Plant genes: must firms pay to play? p1107 27 Aug 1993. Politics takes toll on SSC. p539 30 July 1993. Red scare. p415 23 July 1993. Research reactors abroad face shutdown. p671 6 Aug 1993. Researchers win data network reprieve. p283 16 July 1993. Rumor mill grinds on Goldin. p19 2 July 1993. Science appropriations. p1263 3 Sep 1993. Shalala draws line on AIDS test royalties. p19 2 July 1993. Short-term NIH grants face uncertain future. p1107 27 Aug 1993. Space station should get tentative nod. p1263 3 Sep 1993. Space station survives another vote. p19 2 July 1993. The true cost of a free AIDS vaccine. p1107 27 Aug 1993. Ukraine goes with the wind. p975 20 Aug 1993. U.S., Russia consider global defense network. p283 16 July 1993.
Searson, P. C. See Whitney, T. M.
Seaton, B. A. See Concha, N. O.
Seiler, Kurt. See Harrison, D. Jed.
Seinfeld, J. H. See Calvert, J. G.
Selkirk, H. See Toon, O.
Selvin, Paul (news): Jenny Harrison finally gets tenure in math at Berkeley. p286 16 July 1993.
Sen, Ranjan. See Nelsen, Barbara.
Senior, L. See Weiss, H.
Sepkoski, J. John, Jr. See Labandeira, Conrad C.
Sette, William F.: Protecting the environment: EPA's role (letter). p1374 10 Sep 1993.
Sewell, Kathryn Lee. See Trentham, David E.
Seyfred, Mark A. See Cullen, Katherine E.
Seyler, Monique. See Bonatti, Enrico.
Shahinian, Arda; Pfeffer, Klaus; Lee, Kelvin P.; Kündig, Thomas M.; Kishihara, Kenji; Wakeham, Andrew; Kawai, Kazuhiro; Ohashi, Pamela S.; Thompson, Craig B.; Mak, Tak W.: Differential T cell costimulatory requirements in CD28-deficient mice. p609 30 July 1993.
Sharp, Gary D.: review of *Marine Climate, Weather, and Fisheries*, by Taivo Laevastu. p1463 10 Sep 1993.
Sharpton, Virgil L.; Burke, Kevin; Camargo-Zanoguera, Antonio; Hall, Stuart A.; Lee, D. Scott; Marín, Luis E.; Suárez-Reynoso, Gerardo; Quezada-Muñeton, Juan Manuel; Spudis, Paul D.; Urrutia-Fucugauchi, Jaime: Chicxulub multiring impact basin: size and other characteristics derived from gravity analysis. p1564 17 Sep 1993.
Shau, Yen-Hong; Peacor, Donald R.; Essene, Eric J.: Formation of magnetic single-domain magnetite in ocean ridge basalts with implications for sea-floor magnetism. p343 16 July 1993.
Shuai, Ke. See Sadowski, Henry B.
Shuai, Ke; Stark, George R.; Kerr, Ian M.; Darnell, James E., Jr.: A single phosphotyrosine residue of Stat91 required for gene activation by interferon-γ. p1744 24 Sep 1993.
Shields, John. See Flores-Romo, Leopoldo.
Shinkai, Yoichi. See Nakayama, Kei-ichi.
Shirey, Steven B. See Koeberl, Christian.
Shirozu, Michio. See Tashiro, Kei.
Shores, Elizabeth W. See Love, Paul E.
Siciliano, Michael J. See Liu, Pu.
Siddique, Teepu. See Deng, Han-Xiang.
Sideras, Paschalis. See Thomas, Jeffrey D.
Silvennoinen, Olli; Schindler, Christian; Schlessinger, Joseph; Levy, David E.: Ras-independent growth factor signaling by transcription factor tyrosine phosphorylation. p1736 24 Sep 1993.
Simon, Melvin I. See Wu, Dianqing.
Simon, P. See Cariolle, D.
Simpson, R. See Oppenheimer, D.
Sims, John E. See Colotta, Francesco.
Singer, Alfred. See Love, Paul E.
Singer, Dinah S. See Mozes, Edna.
Singer, P. T.; Smalås, A.; Carty, R. P.; Mangel, W. F.; Sweet, R. M.: Locating the catalytic water molecule in serine proteases (technical comment). p621 30 July 1993.
Singer, S. Fred: Ozone depletion theory (letter). p1101 27 Aug 1993.
Sinha, S. K. See Wu, X. Z.
Sinsheimer, Robert L. and Horowitz, Norman H.: Biology at Caltech (letter). p1505 17 Sep 1993.
Sironi, Marina. See Colotta, Francesco.
Sirota, E. B. See Wu, X. Z.
Sirota, Eric B. See Safinya, Cyrus R.
Small, G. W. See Corder, E. H.
Smalås, A. See Singer, P. T.
Smeets, Hubert. See Zhou, Jing.
Smith, C. I. Edvard. See Thomas, Jeffrey D.
Smith, Marvin T.: Strangers in the woodpile (letter). p15 2 July 1993.
Smith, Robert. See Rayment, Ivan.
Smyth, Celestine. See Deng, Han-Xiang.
Somerville, Chris R. See Reiter, Wolf-Dieter.
Somerville, P. See Oppenheimer, D.
Song, Li; El-Sayed, M. A.; Lanyi, J. K.: Protein catalysis of the retinal subpicosecond photoisomerization in the primary process of bacteriorhodopsin photosynthesis. p891 13 Aug 1993.
Soriano, Edwin. See Deng, Han-Xiang.
Sorkin, Alexander and Carpenter, Graham: Interaction of activated EGF receptors with coated pit adaptins. p612 30 July 1993.
Southwood, D. J. See Kivelson, M. G.
Spevak, Wayne. See Charych, Deborah H.
Spudis, Paul D. See Sharpton, Virgil L.
Stahl, Stephen J. See Omichinski, James G.
Stark, George R. See Shuai, Ke.
Stark, Robert. See Schneider, Rainer.
Stein, C. A. and Cheng, Y.-C.: Antisense oligonucleotides as therapeutic agents—is the bullet really magical? p1004 20 Aug 1993.
Stein, R. See Oppenheimer, D.
Stephens, James C. See Cho, Charles Y.
Stern, S. Alan; Weintraub, David A.; Festou, Michel C.: Evidence for a low surface temperature on Pluto from millimeter-wave thermal emission measurements. p1713 24 Sep 1993.
Stern, T. A. See ten Brink, U. S.
Stewart, Valerie. See Komori, Toshihisa. See also Nakayama, Kei-ichi.
Stiles, Gary L.: review of *Adenosine in the Nervous System*, edited by T. W. Stone. p236 9 July 1993.
Stinissen, Piet. See Zhang, Jingwu.
Stoerig, Petra: Sources of blindsight (technical comment). p493 23 July 1993.
Stone, Richard (careers in science): Pharmaceuticals: good opportunities in small packages. p1788 24 Sep 1993. (news) Babbitt shakes up science at Interior. p976 20 Aug 1993. The biological survey's scientific core. p977 20 Aug 1993. EPA analysis of radon in water is hard to swallow. p1514 17 Sep 1993. Guam: deadly disease dying out. p424 23 July 1993. New Seveso findings point to cancer. p1383 10 Sep 1993. Radon risks up in the air. p1515 17 Sep 1993. Spotted owl plan kindles debate on salvage logging. p287 16 July 1993. A threat to property rights? p976 20 Aug 1993.
Strahan, S. E. See Salawitch, R. J.
Strittmatter, W. J. See Corder, E. H.
Strong, Steven. See Chakravarty, Sudip.
Stucky, G. D. See Monnier, A.
Stumpf, Humberto O.; Ouahab, Lahcène; Pei, Yu; Grandjean, Daniel; Kahn, Olivier: A molecular-based magnet with a fully interlocked three-dimensional structure. p447 23 July 1993.
Stürzenhofecker, Gabriele: review of *Inalienable Possessions*, by Annette B. Weiner. p234 9 July 1993.
Suárez-Reynoso, Gerardo. See Sharpton, Virgil L.
Sudbø, Asle. See Chakravarty, Sudip.
Sullivan, Neil S.: review of *Fundamentals of Nuclear Magnetic Resonance*, by Jacek W. Hennel and Jacek Klinowski. p117 2 July 1993.
Sun, Xiao-Jian. See Wang, Ling-Mei.
Sundaram, Arathi. See Cho, Charles Y.
Sushevskaya, Nadia. See Bonatti, Enrico.
Suttmeier, Richard P.: review of *China's Environmental Crisis*, by Vaclav Smil. p627 30 July 1993.
Swank, Douglas. See Rome, Lawrence C.
Sweet, R. M. See Singer, P. T.
Sweitzer, Sharon M. See Larner, Andrew C.
Swenson, Mark S. See Washburn, Libe.
Swift, Michael: Breast cancer incidence (letter). p278 16 July 1993.
Swinney, Harry L. See Lee, Kyoung J.
Szostak, Jack W. See Bartel, David P.

T

Tachiki, M. See Egami, T.
Tackley, Paul J. See Jordan, Thomas H.
Tada, Hideaki. See Tashiro, Kei.
Tainer, John A. See Deng, Han-Xiang.
Talmon, Y. See Majewski, J.
Tanaka, Toshiaki. See Kameoka, Junichi.
Tarlé, Susan A. See Liu, Pu.
Tashiro, Kei; Tada, Hideaki; Heilker, Ralf; Shirozu, Michio; Nakano, Toru; Honjo, Tasuku: Signal sequence trap: a cloning strategy for secreted proteins and type I membrane proteins. p600 30 July 1993.
Taubes, Gary (news): Holding the lines of high-temperature superconductors. p1521 17 Sep 1993. How collapsing stars might hide their tracks in black holes. p831 13 Aug 1993. Is the third time a charm for a superconducting computer? p1670 24 Sep 1993. Misconduct: views from the trenches. p1108 27 Aug 1993.
Taussig, Ronald; Iñiguez-Lluhi, Jorge A.; Gilman, Alfred G.: Inhibiton of adenylyl cyclase by $G_{i\alpha}$. p218 9 July 1993.
Taylor, Edwin W.: Molecular muscle (perspective). p35 2

July 1993.
Taylor, K. See Mayewski, P. A.
Teasley, Dorothy Odell: A path not taken (letter). p15 2 July 1993.
Teichmann, Friedrich. See Basu, Asis R.
ten Brink, U. S.; Bannister, S.; Beaudoin, B. C.; Stern, T. A.: Geophysical investigations of the tectonic boundary between East and West Antarctica. p45 2 July 1993.
Terhorst, Cox. See Hall, Craig G.
Terranova, Michael P. See Myers, Lawrence C.
Teyssèdre, H. See Cariolle, D.
Thiel, Heinz-Jürgen. See Schneider, Rainer.
Thomas, Jeffrey D.; Sideras, Paschalis; Smith, C. I. Edvard; Vořechovský, Igor; Chapman, Verne; Paul, William E.: Colocalization of X-linked agammaglobulinemia and X-linked immunodeficiency genes. p355 16 July 1993.
Thomas, Linda A.: Women in Science '93: a "female style"? (letter). p409 23 July 1993.
Thompson, Craig B. See Shahinian, Arda.
Thornber, J. Philip: review of *Pigment-Protein Complexes in Plastids*, edited by Christer Sundqvist and Margareta Ryberg. p235 9 July 1993.
Thorndyke, Lloyd M. and Riganati, John P.: The ever-present packaging challenge (perspective). p851 13 Aug 1993.
Thorne, A. G.; Wolpoff, M. H.; Eckhardt, R. B.: Genetic variation in Africa (letter). p1507 17 Sep 1993.
Tian, Gang. See Nelsen, Barbara.
Tiemann, Bruce G. See Marder, Seth R.
Tomatis, L. See Vainio, H.
Tomchick, Diana R. See Rayment, Ivan.
Toney, Michael D.; Hohenester,Erhard; Cowan, Sandra W.; Jansonius, Johan N.: Dialkylglycine decarboxylase structure: bifunctioinal active site and alkali metal sites. p756 6 Aug 1993.
Toohey, D. See Newman, P.
Toohey, D. W. See Webster, C. R. *See also* Wilson, J. C.
_____; Avallone, L. M.; Lait, L. R.; Newman, P. A.; Schoeberl, M. R.; Fahey, D. W.; Woodbridge, E. L.; Anderson, J. G.: The seasonal evolution of reactive chlorine in the Northern Hemisphere stratosphere. p1134 27 Aug 1993.
Toon, G. See Toon, O.
Toon, O.; Browell, E.; Gary, B.; Lait, L.; Livingston, J.; Newman, P.; Pueschel, R.; Russell, P.; Schoeberl, M.; Toon, G.; Traub, W.; Valero, F. P. J.; Selkirk, H.; Jordan, J.: Heterogeneous reaction probabilities, solubilities, and the physical state of cold volcanic aerosolsl. p1136 27 Aug 1993.
Toon, Owen B. See Browell, Edward V.
Towe, Kenneth M.: Photochemistry in the primitive solar nebula (technical comment). p1058 20 Aug 1993.
Trail, P. A.; Willner, D.; Lasch, S. J.; Henderson, A. J.; Hofstead, S.; Casazza, A. M.; Firestone, R. A.; Hellström, I.; Hellström, K. E.: Cure of xenografted human carcinomas by BR96-doxorubicin immunoconjugates. p212 9 July 1993.
Trainor, Cecelia. See Omichinski, James G.
Traub, W. See Toon, O.
Travis, John (news): Helping premature lungs breathe easier. p426 23 July 1993. Marine lab weathers a storm. p672 6 Aug 1993. Mars observer's costly solitude. p1264 3 Sep 1993. New piece in Alzheimer's puzzle. p828 13 Aug 1993. Putting antibodies to work inside cells. p1114 27 Aug 1993. Scientists loosen their grip. p673 6 Aug 1993. Slicing the pro off proinsulin. p1113 27 Aug 1993. Stepping out with kinesin. p1112 27 Aug 1993. Tracing the immune system's evolutionary history. p164 9 July 1993.
Travis, John and Cohen, Jon (news): How observer became a 'billion-dollar mission.' p1266 3 Sep 1993.
Travis, John and Cohen, Jon (news): The sounds of silence: chronology of despair. p1265 3 Sep 1993.
Trefethen, Anne E. See Trefethen, Lloyd N.
Trefethen, Lloyd N.; Trefethen, Anne E.; Reddy, Satish C.; Driscoll, Tobin A.: Hydrodynamic stability without eigenvalues. p578 30 July 1993.
Tremblay, Michel L. See Love, Paul E.
Trentham, David E.; Dynesius-Trentham; Roselynn A.; Orav, E. John; Combitchi, Daniel; Lorenzo, Carlos; Sewell, Kathryn Lea; Hafler, David A.; Weiner, Howard L.: Effects of oral administration of type II collagen on rheumatoid arthritis. p1727 24 Sep 1993.
Tryggvason, Karl. See Zhou, Jing.
Tryka, Kimberly A.; Brown, Robert H.; Anicich, Vincent; Cruikshank, Dale P.; Owen, Tobias C.: Spectroscopic determination of the phase composition and temperature of nitrogen ice on Triton. p751 6 Aug 1993.
Tsukada, Satoshi. See Rawlings, David J.
Tsunoda, Susan. See Butler, Alice.
Tu, Yuan. See Xue, Ding.
Turner, Douglas H. See Culver, Gloria M.
Twickler, M. S. See Mayewski, P. A.

U and V

Uffelman, Erich S. See Collman, James P.
Uğurbil, Kâmil. See Kim, Seong-Gi.
Uknes, Scott. See Gaffney, Thomas.
Unger, Gabriele. See Schneider, Rainer.
Urdea, Michael S. and Horn, Thomas: Dendrimer development (letter). p534 30 July 1993.
Urrutia-Fucugauchi, Jaime. See Sharpton, Virgil L.
Vainio, H.; Armstrong, B.; Tomatis, L.: Determining carcinogenicity. p814 13 Aug 1993.
Valentine, D. See Oppenheimer, D.
Valero, F. P. J. See Toon, O.
van Meerwijk, Joost P. M. and Germain, Ronald N.: Development of mature $CD8^+$ thymocytes: selection rather than instruction? p911 13 Aug 1993.
Van Valkenburgh, Blaire and Hertel, Fritz: Tough times at La Brea: tooth breakage in large carnivores of the late Pleistocene. p456 23 July 1993.
van Zyl, J. J. See Rignot, E. J.
Varki, Ajit. See Norgard-Sumnicht, Karin E.
Varki, Nissi M. See Norgard-Sumnicht, Karin E.
Veaute, Xavier and Fuchs, Robert P. P.: Greater susceptibility to mutations in lagging strand of DNA replication in *Escherichia coli* than in leading strand. p598 30 July 1993.
Verdine, Gregory L. See Myers, Lawrence C.
Vernooij, Bernard. See Gaffney, Thomas.
Vidale, J. E. and Lay, T.: Phase boundaries and mantle convection (perspective). p1401 10 Sep 1993.
Vila, M. P. See Muegge, K.
Villard, Ray: Hubble telescope research (letter). p665 6 Aug 1993.
Vincent, Roger: review of *Electron Microdiffraction*, by J. C. H. Spence and J. M. Zuo. p1464 10 Sep 1993.
Visalberghi, Elisabetta: review of *Chimpanzee Material Culture*, by W. C. McGrew. p1754 24 Sep 1993.
Viswanathan, R.; Zasadzinski, J. A.; Schwartz, D. K.: Strained-layer van der Waals epitaxy in a Langmuir-Blodgett film. p449 23 July 1993.
Vitt, Dale H.: review of *The Patterned Peatlands of Minnesota*, edited by H. E. Wright, Jr., Barbara A. Coffin, and Norman E. Aaseng. p1462 10 Sep 1993.
von Steiger, R. See Gloeckler, G.
Vořechovský, Igor. See Thomas, Jeffrey D.

W

Wagner, Gerhard. See Myers, Lawrence C.
Wählander, Karin. See Juntti-Berggren, Lisa.
Wakeham, Andrew. See Shahinian, Arda.
Waldeck, D. H. and Beratan, D. N.: Molecular electronics: observation of molecular rectification (perspective). p576 30 July 1993.
Waldrop, M. Mitchell (careers in science): Cognitive neuroscience: a world with a future. p1805 24 Sep 1993. (news) PARC builds a world saturated with computation. p1523 17 Sep 1993.
Waldrop, M. Mitchell (computing in science): Frustrated with Fortran? bored by basic? try OOP! p849 13 Aug 1993.
Walker, R. J. See Kivelson, M. G.
Wallace, Mia C. See Cheng, Tse-Chang.
Walseth, Timothy F. See Lee, Hon Cheung.
Walsh, Christopher T.: Vancomycin resistance: decoding the molecular logic (perspective). p308 16 July 1993.
Wang, Ling-Mei; Myers, Martin G., Jr.; Sun, Xiao-Jian; Aaronson, Stuart A.; White, Morris; Pierce, Jacalyn H.: IRS-1: essential for insulin- and IL-4–stimulated mitogenesis in hematopoietic cells. p1591 17 Sep 1993.
Wang, Ning. See Zhu, Tuofu.
Ward, Eric. See Gaffney, Thomas.
Warden, Craig H.; Hedrick, Catherine C.; Qiao, Jian-Hua; Castellani, Lawrence W.; Lusis, Aldons J.: Atherosclerosis in transgenic mice overexpressing apolipoproteinA-II. p469 23 July 1993.
Waring, A. J. See Longo, M. L.
Warner, Carolyn. See Deng, Han-Xiang.
Washburn, Libe; Swenson, Mark S.; Largier, John L.; Kosro, P. Michael; Ramp, Steven R.: Cross-shelf sediment transport by an anticyclonic eddy off northern California. p1560 17 Sep 1993.
Wasserburg, G. J. See LaTourrette, T. Z.
Waters, Tom: "Because it's there" (letter). p146 9 July 1993.
Watson, J. D. (careers in science): Succeeding in science: some rules of thumb. p1812 24 Sep 1993.
Watson, Traci (news): Protein signals frog embryo to start getting a head. p830 13 Aug 1993.
Watts, William A. See Grimm, Eric C.
Weaver, A. See Proffitt, M. H. See also Wilson, J. C.
Webb, Deborah S. A. See Lamer, Andrew C.
Webster, C. R. See Salawitch, R. J.
_____; May, R. D.; Toohey, D. W.; Avallone, L. M.; Anderson, J. G.; Newman, P.; Lait, L.; Schoeberl, M. R.; Elkins, J. W.; Chan, K. R.: Chlorine chemistry on polar stratospheric cloud particles in the Arctic winter. p1130 27 Aug 1993.
Weeks, Kevin M. and Crothers, Donald M.: Major groove accessibility of RNA. p1574 17 Sep 1993.
Wei, Aguan. See Butler, Alice.
Weigel, Detlef and Meyerowitz, Elliot M.: Activation of floral homeotic genes in *Arabidopsis*. p1723 24 Sep 1993.
Weinberg, W. Henry. See Johnson, Dale F.
Weiner, Howard L. See Trentham, David E.
Weintraub, David A. See Stern, S. Alan.
Weiskrantz, Lawrence: Sources of blindsight (technical comment). p494 23 July 1993.
Weiss, H.; Courty, M.-A.; Wetterstrom, W.; Guichard, F.; Senior, L.; Meadow, R.; Curnow, A.: The genesis and collapse of third millennium North Mesopotamian civilization. p995 20 Aug 1993.
Weissbach, Herbert: The Roche Institute (letter). p146 9 July 1993.
Wenzel, Lawrence J. See Safinya, Cyrus R.
Wesenberg, Gary. See Rayment, Ivan.
Wessinger, C. Mark. See Fendrich, Robert.
West, James W. See Li, Ming.
Westbrook, Robert B.: review of *Charles Sanders Peirce*, by Joseph Brent. p368 16 July 1993.
Westphal, Heiner. See Love, Paul E.
Wetterstrom, W. See Weiss, H.
Whitaker, Michael. See Galione, Antony.
White, Morris. See Wang, Ling-Mei.
Whitesell, James K. and Chang, Hye Kyung: Directionally aligned helical peptides on surfaces. p73 2 July 1993.
Whitlow, S. See Mayewski, P. A.
Whitney, T. M.; Jiang, J. S.; Searson, P. C.; Chien, C. L.: Fabrication and magnetic properties of arrays of metallic nanowires. p1316 3 Sep 1993.
Whittaker, Michael. See Rayment, Ivan.
Wicks, Charles W., Jr., and Richards, Mark A.: A detailed map of the 660-kilometer discontinuity beneath the Izu-Bonin subduction zone. p1424 10 Sep 1993.
Widdus, Roy. See Des Jarlais, Don C.
Wilken, B. See Gloeckler, G.
Williams, Kelly P.: Simplifications of a self-replication model (technical comment). p925 13 Aug 1993.
Williams, Scott A. See Handel, Tracy M.
Willner, D. See Trail, P. A.
Wilmott, Nick. See Galione, Antony.
Wilson, J. C. See Salawitch, R. J.
_____; Jonsson, H. H.; Brock, C. A.; Toohey, D. W.; Avallone, L. M.; Baumgardner, D.; Dye, J. E.; Poole, L. R.; Woods, D. C.; DeCoursey, R. J.; Osborn, M.; Pitts, M. C.; Kelly, K. K.; Chan, K. R.; Ferry, G. V.; Loewenstein, M.; Podolske, J. R.; Weaver, A.: In situ observations of aerosol and chlorine monoxide after the 1991 eruption of Mount Pinatubo: effect of reactions on sulfate aerosol. p1140 27 Aug 1993.
Wilson, Matthew A. and McNaughton, Bruce L.: Dynamics of the hippocampal ensemble code for space. p1055 20 Aug 1993.
Wilson, Paul T.: Killer asteroid twin? (letter). p146 9 July 1993.
Winkelmann, Donald A. See Rayment, Ivan.
Witcher, Derrick R.; De Waard, Michel; Sakamoto, Junshi; Franzini-Armstrong, Clara; Pragnell, Marlon; Kahl, Steven D.; Campbell, Kevin P.: Subunit identification and reconstitution of the N-type Ca^{2+} channel complex purified from brain. p486 23 July 1993.
Witte, Owen N. See Rawlings, David J.
Wofsy, S. C. See Salawitch, R. J.
Wolpoff, M. H. See Thorne, A. G.
Wood, H. Alan and Hughes, Patrick R.: Biopesticides (letter). p277 16 July 1993.
Woodbridge, E. L. See Toohey, D. W.
Woods, D. C. See Wilson, J. C.
Wooldridge, P. J. See Molina, M. J.
Wu, Dianqing; LaRosa, Gregory J.; Simon, Melvin I.: G

protein–coupled signal transduction pathways for interleukin-8. p101 2 July 1993.
Wu, X. Z.; Ocko, B. M.; Sirota, E. B.; Sinha, S. K.; Deutsch, M.; Cao, B. H.; Kim, M. W.: Surface tension measurements of surface freezing in liquid normal alkanes. p1018 20 Aug 1993.
Wulf, Wm. A.: The collaboratory opportunity (computing in science perspective). p854 13 Aug 1993.
Wykoff, D. See Britt, A. B.

X and Y

Xia, T. K. and Landman, Uzi: Molecular dynamics of adsorption and segregation from an alkane mixture. p1310 3 Sep 1993.
Xie, Qiao-wen. See Karupiah, Gunasegaran.
Xue, Ding; Tu, Yuan; Chalfie, Martin: Cooperative interactioins between the *Caenorhabditis elegans* homeoproteins UNC-86 and MEC-3. p1324 3 Sep 1993.
Yamashita, Shinya; Hisatake, Koji; Kokubo, Tetsuro; Doi, Katsumi; Roeder, Robert G.; Horikoshi, Masami; Nakatani, Yoshihiro: Transcription factor TFIIB sites important for interaction with promoter-bound TFIID. p463 23 July 1993.
Yang, Jie. See Rabizadeh, Shahrooz.
Yohn, Christopher B. See Rayment, Ivan.
Young, Leslie A. See Owen, Tobias C.
Yu, V. C.: Let me count the ways (letter). p145 9 July 1993.
Yu, Yang. See Park, Jeffrey.

Z

Zabusky, Norman J.: review of *Vortex Dynamics*, by P. G. Saffman. p1757 24 Sep 1993.
Zandt, George and Carrigan, Charles R.: Small-scale convective instability and upper mantle viscosity under California. p460 23 July 1993.
Zasadzinski, J. A. See Viswanathan, R.
Zasadzinski, J. A. N. See Longo, M. L.
Zhang, Jingwu; Medaer, Robert; Stinissen, Piet; Hafler, David; Raus, Jef: MHC-restricted depletion of human myelin basic protein–reactive T cells by T cell vaccination. p1451 10 Sep 1993.
Zhang, R. See Molina, M. J.
Zhang, Xumu. See Collman, James P.
Zheng, Liangbiao; Collins, Frank H.; Kumar, Vasantha; Kafatos, Fotis C.: A detailed genetic map for the X chromosome of the malaria vector, *Anopheles gambiae*. p605 30 July 1993.
Zhong, Li-tao. See Rabizadeh, Shahrooz.
Zhou, Jing; Mochizuki, Toshio; Smeets, Hubert; Antignac, Corinne; Laurila, Pekka; de Paepe, Anne; Tryggvason, Karl; Reeders, Stephen T.: Deletion of the paired α5(IV) and α6(IV) collagen genes in inherited smooth muscle tumors. p1167 27 Aug 1993.
Zhou, Yi-Xiong and Baker, Curtis L., Jr.: A processing stream in mammalian visual cortex neurons for non-Fourier responses. p98 2 July 1993.
Zhu, Ning; Liggitt, Denny; Liu, Yong; Debs, Robert: Systemic gene expression after intravenous DNA delivery into adult mice. p209 9 July 1993.
Zhu, Tuofu; Mo, Hongmei; Wang, Ning; Nam, Daniel S.; Cao, Yunzhen; Koup, Richard A.; Ho, David D.: Genotypic and phenotypic characterization of HIV-1 in patients with primary infection. p1179 27 Aug 1993.
Zillmann, Martin. See Culver, Gloria M.
Zolensky, Michael E. See Hiroi, Takahiro.